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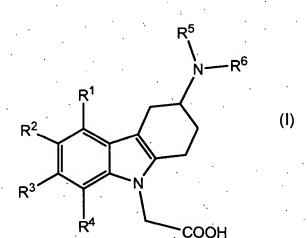
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- (71) Applicant (for all designated States except US): ACTELION PHARMACEUTICALS LTD [CH/CH]; Gewerbestrasse 16, CH-4123 Allschwil (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FRETZ, Heinz [CH/CH]; Grenzacherweg 295, CH-4125 Riehen (CH). POTHIER, Julien [FR/FR]; 27, rue du Vieil Armand, F-68300 Saint-louis (FR). RISCH, Philippe [FR/FR]; 16, rue du Heilhof, F-68510 Rantzwiller (FR).
- (74) Agent: GSCHWEND, Thomas; c/o Actelion Pharmaceuticals Ltd., Legal Department, Gewerbestrasse 16, CH-4123 Allschwil (CH).

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(54) Title: (3-AMINO-1,2,3,4-TETRAHYDRO-9H-CARBAZOL-9-YL)-ACETIC ACID DERIVATIVES



(57) Abstract: The present invention relates to (3-amino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid derivatives of Formula (I) wherein R^1 , R^2 , R^3 , R^4 , R^5 and R^6 are as described in the description and their use as prostaglandin receptor modulators, most particularly as prostaglandin D_2 receptor modulators, in the treatment of various prostaglandin-mediated diseases and disorders, to pharmaceutical compositions containing these compounds and to processes for their preparation.

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(3-Amino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic Acid Derivatives

Field of the invention:

The present invention relates to (3-amino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid derivatives of Formula I and their use as prostaglandin receptor modulators, most particularly as prostaglandin D₂ receptor ("DP receptor") modulators, in the treatment of various prostaglandin-mediated diseases and disorders, to pharmaceutical compositions containing these compounds and to processes for their preparation. In particular, such derivatives may be used alone or in pharmaceutical compositions for the treatment of both, chronic and acute allergic/immune diseases/disorders such as allergic asthma, rhinitis, allergic rhinitis, chronic obstructive pulmonary disease (COPD), dermatitis, inflammatory bowel disease, rheumatoid arthritis, allergic nephritis, conjunctivitis, atopic dermatitis, bronchial asthma, food allergy, systemic mast cell disorders, anaphylactic shock, urticaria, eczema, itching, inflammation, ischemia-reperfusion injury, cerebrovascular disorders, pleuritis, ulcerative colitis, eosinophil-related diseases, such as Churg-Strauss syndrome and sinusitis, and basophil-related diseases, such as basophilic leukemia and basophilic leukocytosis, in humans and other mammals.

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Background of the invention:

As a response to allergen exposure in allergic conditions, mast cells are activated and release chemotactic key mediators like histamine, thromboxane A2 (TxA2), cysteinyl leukotrienes (CysLTs) and prostaglandin D₂ (PGD₂). These mediators interact with their respective receptors and cause physiological effects such as increased vascular permeability, edema, pruritus, nasal and pulmonary congestion, bronchoconstriction, and mucus secretion. An increased vascular permeability for example, allows excessive infiltration of eosinophilic and basophilic leukocytes into the tissue and thus amplifies the allergic response.

30 Current treatments of allergic diseases comprise agents that can block or otherwise interrupt such interactions, e.g. anti-histamines (histamine H1 receptor antagonists), leukotriene receptor antagonists, beta-adrenergic receptor agonists, and corticosteroids. Generally,

treatments with anti-histamines and leukotriene antagonists are limited in efficacy, and long-term usage of corticosteroids is associated with unwanted side effects.

PGD₂ is an agonist known to act on two G-protein-coupled receptors, the PGD₂ receptor DP1 and the recently identified CRTH2 (chemoattractant receptor-homologous molecule expressed on Th2 cells) receptor (also referred to as "DP2 receptor").

Elevated PGD₂ levels are considered to cause inflammation actions as observed in allergic diseases such as allergic rhinitis, allergic asthma, allergic conjunctivitis, atopic dermatitis and the like. Therefore, blocking the interaction of PGD₂ with its receptors is considered a useful therapeutic strategy for the treatment of such diseases.

WO 01/79169 discloses (tetrahydrocarbazol-1-yl)acetic acid derivatives as PGD₂ receptor antagonists.

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GB 2388540 (Bayer AG) discloses the use of ramatroban ((3R)-3-(4-fluorobenzene-sulfonamido)-1,2,3,4-tetrahydrocarbazole-9-propionic acid), a TxA2 receptor (also referred to as "TP receptor") antagonist with additional antagonistic activity on CRTH2, for the prophylaxis and treatment of allergic diseases, such as asthma, allergic rhinitis or allergic conjunctivitis. In T. Ishizuka et al., Cardiovascular Drug Rev. 2004, 22(2), 71-90 effects of ramatroban on late-phase inflammation are described. Furthermore, oral bioavailability of ramatroban and its ability to inhibit prostaglandin D₂-induced eosinophil migration in vitro has been reported (Journal of Pharmacology and Experimental Therapeutics, 305(1), p.347-352 (2003)).

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WO 03/097598 and WO 03/097042 disclose Ramatroban analogues with CRTH2 antagonistic activity. Ulven et al, in J. Med. Chem. 2005, 48(4), 897-900 disclose further ramatroban analogues.

The compounds of the invention are structurally different from corticosteroids, antihistamines, leukotriene antagonists or beta-adrenergic agonists.

Description of the invention:

i) The present invention relates to (3-amino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid compounds of the Formula I:

$$R^{2}$$
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{6}
 R^{5}
 R^{6}

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wherein

 R^1 , R^2 , R^3 and R^4 independently represent hydrogen, C_{1-5} -alkyl, C_{1-5} -alkoxy, alkenyl (especially allyl or vinyl), halogen, nitro, cyano, halo- C_{1-6} -alkoxy, halo- C_{1-6} -alkyl, C_{1-6} -alkylsulfonyl, or formyl;

 R^5 represents hydrogen, alkenyl (especially allyl or vinyl), C_{1-6} -alkyl, cycloalkyl- C_{1-4} -alkyl, C_{1-3} -alkoxy- C_{1-4} -alkyl, aryl- C_{1-4} -alkyl, or aryloxy- C_{1-4} -alkyl (especially R^5 represents hydrogen, C_{1-6} -alkyl, cycloalkyl- C_{1-4} -alkyl, C_{1-3} -alkoxy- C_{1-4} -alkyl, aryl- C_{1-4} -alkyl, or aryloxy- C_{1-4} -alkyl);

wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy, C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, trifluoromethyl, and trifluoromethoxy (especially trifluoromethyl); and

 R^6 represents C_{1-9} -alkylaminocarbonyl; C_{1-9} -alkylaminothiocarbonyl; C_{1-9} -alkylcarbonyl; C_{1-9} -alkoxycarbonyl; arylaminocarbonyl; arylaminothiocarbonyl; aryl- C_{1-3} -alkoxy- C_{1-3} -alkoxycarbonyl; aryl- C_{1-3} -alkoxycarbonyl; aryl- C_{1-3} -alkylcarbonyl; aryl- C_{1-3} -alkylcarbonyl; aryl- C_{1-3} -alkylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; cycloalkyl-

diaryl-C₁₋₃-alkylcarbonyl; heterocyclylcarbonyl; C_{1-3} -alkylcarbonyl; C₁₋₃-alkylcarbonyl; heteroarylcarbonyl, aryl-C₃₋₆-cycloalkylcarbonyl; cycloalkylcarbonyl; or R⁷-C₁₋₄-alkylcarbonyl, wherein the bridging C₁₋₄-alkyl group may additionally be monosubstituted with aryl or disubstituted with hydroxy, and R⁷ represents arylaminocarbonyl, 5 heteroarylaminocarbonyl, C₁₋₆-alkylaminocarbonyl, or aryl-C₁₋₃-alkylaminocarbonyl; wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy; C₁₋₆-alkoxy; C₁₋₆-alkyl; C₁₋₆-alkylsulfonyl; phenyl which is unsubstituted, mono- or di-substituted by substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyl; phenyl-C₁₋₃-alkyl, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents independently selected from 10 halogen, trifluoromethyl, methoxy and methyl; naphthyl-C₁₋₃-alkyl; phenoxy, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyloxy; halogen; hydroxy; halo- C_{1-6} -alkyl; halo- C_{1-6} -alkoxy; C_{1-6} -alkylthio; and C_{1-4} -alkoxycarbonylamino.

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ii) In another embodiment, the invention relates to compounds of Formula I according to embodiment i), wherein

R⁵ represents hydrogen, alkenyl (especially allyl or vinyl), or C₁₋₆-alkyl; and

 R^6 represents C_{1-9} -alkylaminocarbonyl, C_{1-9} -alkylaminothiocarbonyl, C_{1-9} -alkylcarbonyl, C_{1-9} -alkoxycarbonyl, arylaminocarbonyl, arylaminothiocarbonyl, aryl- C_{1-3} -alkoxy- C_{1-3} -alkoxycarbonyl, aryl- C_{1-3} -alkoxycarbonyl, aryl- C_{1-3} -alkylcarbonyl, aryl- C_{1-3} -alkylcarbonyl, arylcarbonyl, arylcarbonyl- C_{1-4} -alkylcarbonyl, aryloxy- C_{1-3} -alkylcarbonyl, arylsulfonylaminocarbonyl, cycloalkyl- C_{1-3} -alkylcarbonyl, heterocyclylcarbonyl, heteroaryl-

25 C_{1-3} -alkylcarbonyl, or heteroarylcarbonyl;

wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy; C₁₋₆-alkoxy; C₁₋₆-alkyl; C₁₋₆-alkylsulfonyl; phenyl which is unsubstituted, mono- or di-substituted with substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyl; phenyl-C₁₋₃-alkyl, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyl-C₁₋₃-alkyl; phenoxy, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents

independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyloxy; halogen; hydroxy; halo-C₁₋₆-alkyl; and halo-C₁₋₆-alkoxy.

- iii) A further embodiment of the invention relates to compounds of Formula I according to embodiment ii), wherein
- R^1 , R^2 , R^3 and R^4 independently represent hydrogen; C_{1-5} -alkyl, especially methyl, or isopropyl; C_{1-5} -alkoxy, especially methoxy; alkenyl, especially allyl or vinyl; halogen, especially fluoro, or chloro; halo- C_{1-6} -alkyl, especially trifluoromethyl; or C_{1-6} -alkylsulfonyl, especially methanesulfonyl;
- 10 R⁵ represents hydrogen; alkenyl, especially ethenyl, or 2-propenyl; or C₁₋₆-alkyl, especially methyl, ethyl, or propyl; and
- R⁶ represents C_{1.9}-alkylaminocarbonyl, such as butylaminocarbonyl; C_{1.9}-alkylcarbonyl, such as propylcarbonyl, isobutylcarbonyl, hexylcarbonyl, nonvlcarbonvl: or C₁₋₉-alkoxycarbonyl, such as propoxycarbonyl, tert-butoxycarbonyl, or isobutoxycarbonyl; arylalkenylcarbonyl, such as naphthalenylethenylcarbonyl (especially 2-naphthalen-2-yl-15 ethenylcarbonyl), phenylethenylcarbonyl; arylaminocarbonyl, such or. naphthalenaminocarbonyl (especially naphthalen-1-aminocarbonyl), or phenylaminocarbonyl; $aryl-C_{1-3}$ -alkoxy- C_{1-3} -alkoxycarbonyl, such benzyloxyethoxycarbonyl (especially 2-benzyloxy-ethoxycarbonyl); C₁₋₃-alkoxycarbonyl, such as benzyloxycarbonyl; aryl-C₁₋₃-alkylaminocarbonyl, such as 20 benzylaminocarbonyl, or phenylethylaminocarbonyl; aryl-C₁₋₃-alkylcarbonyl, such as phenylmethylcarbonyl, phenylethylcarbonyl (especially 2-phenylethyl-carbonyl), naphthalenylethylcarbonyl (especially 2-naphthalen-2-yl-ethylcarbonyl); aryl- C_{1-3} -alkoxy- C_{1-3} -alkylcarbonyl, such as benzyloxymethyl-carbonyl; arylcarbonyl, 25 phenylcarbonyl; arylcarbonyl-C₁₋₄-alkylcarbonyl, such as phenylcarbonylethylcarbonyl (especially 2-phenylcarbonyl-ethylcarbonyl); aryloxy-C₁₋₃-alkylcarbonyl, such as phenoxymethylcarbonyl; arylsulfonylaminocarbonyl, such as phenylsulfonylaminocarbonyl; cycloalkyl-C₁₋₃-alkylcarbonyl, cyclopentylethylcarbonyl (especially such 2-cyclopentylethylcarbonyl), or indanylmethylcarbonyl (especially 2-ylmethylcarbonyl); diaryl-C₁₋₃-alkylcarbonyl, such as 1,2-diphenylethylcarbonyl, or 30
 - 2,2-diphenylethylcarbonyl; diaryl- C_{1-3} -alkylcarbonyl, such as 1,2-diphenylethylcarbonyl (especially 2,3-dihydro-1H-indole-2-carbonyl); heteroaryl- C_{1-3} -alkylcarbonyl, such as

benzimidazolyl-C₁₋₃-alkylcarbonyl (especially 2-1H-benzimidazol-2-yl-ethylcarbonyl), or

indolyl- C_{1-3} -alkylcarbonyl, such as indolylethylcarbonyl (especially 2-1*H*-indol-3-yl-ethylcarbonyl), or thienylmethylcarbonyl (especially 2-thienylmethylcarbonyl), or pyridinylethylcarbonyl (especially 2-(pyridin-3-yl)ethylcarbonyl); or heteroarylcarbonyl, such as indolylcarbonyl (especially 1*H*-indole-2-yl-carbonyl);

wherein aryl (especially phenyl or naphthyl) is unsubstituted, mono- or di-substituted with (a) group(s) independently selected from C_{1-2} -alkylendioxy (especially methylendioxy), C_{1-6} -alkoxy (especially methoxy), C_{1-6} -alkyl (especially methyl, ethyl, isopropyl, or *tert*-butyl), C_{1-6} -alkylsulfonyl (especially methanesulfonyl), halogen (especially chloro, fluoro or bromo), hydroxy, and halo- C_{1-6} -alkyl (especially trifluoromethyl).

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- iv) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to iii), wherein R¹ represents hydrogen, or halogen.
- v) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to iv), wherein R² represents hydrogen, trifluoromethyl, or halogen (especially hydrogen, or halogen).
 - vi) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to v), wherein R³ represents hydrogen, or halogen.

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vii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to vi), wherein R⁴ represents hydrogen, alkenyl (especially allyl or vinyl), halogen (especially chloro or bromo), C₁₋₆-alkylsulfonyl (especially methanesulfonyl); especially hydrogen or halogen.

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- viii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to vii), wherein R¹, R³ and R⁴ represent hydrogen.
- ix) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to viii), wherein R² represents fluoro.
 - x) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents hydrogen, C₁₋₆-alkyl

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(especially C_{1-3} -alkyl), cycloalkyl- C_{1-4} -alkyl (especially cyclopropylmethyl), C_{1-3} -alkoxy- C_{1-4} -alkyl (especially 2-methoxyethyl), aryl- C_{1-4} -alkyl (especially naphthylmethyl, or preferably phenyl- C_{2-3} -alkyl), or aryloxy- C_{1-4} -alkyl (especially phenoxyethyl); wherein aryl (especially phenyl) is unsubstituted (preferred), or mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy, C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, trifluoromethyl, and trifluoromethoxy.

- xi) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R^5 represents hydrogen; C_{1-3} -alkyl (especially methyl); cyclopropylmethyl; 2-methoxyethyl; phenyl- C_{2-3} -alkyl; or phenoxyethyl, wherein the phenyl group is unsubstituted (preferred), or mono-substituted with a group selected from C_{1-2} -alkylendioxy, C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, trifluoromethyl, and trifluoromethoxy (especially trifluoromethyl).
- xii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents C₁₋₃-alkyl (especially methyl); cyclopropylmethyl; 2-methoxyethyl; phenyl-C₂₋₃-alkyl; or phenoxyethyl, wherein the phenyl group is unsubstituted (preferred), or mono-substituted with a group selected from C₁₋₂-alkylendioxy, C₁₋₄-alkoxy, C₁₋₄-alkyl, halogen, trifluoromethyl, and trifluoromethoxy (especially trifluoromethyl).
 - xiii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents hydrogen, C₁₋₃-alkyl (especially methyl), cyclopropylmethyl, or 2-methoxyethyl; especially cyclopropylmethyl, or 2-methoxyethyl.
 - xiv) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents hydrogen, methyl, ethyl, or *n*-propyl.
 - xv) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents hydrogen.

xvi) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to ix), wherein R⁵ represents phenyl-C₂₋₃-alkyl.

xvii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R^6 represents $C_{1.9}$ -alkylaminocarbonyl; $C_{1.9}$ -alkylcarbonyl; $C_{1.9}$ -alkoxycarbonyl; arylakenylcarbonyl; arylaminocarbonyl; aryl- $C_{1.3}$ -alkoxy- $C_{1.3}$ -alkoxy- $C_{1.3}$ -alkoxy- $C_{1.3}$ -alkylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; cycloalkyl- $C_{1.4}$ -alkylcarbonyl; aryloxy- $C_{1.3}$ -alkylcarbonyl; arylsulfonylaminocarbonyl; cycloalkyl- $C_{1.3}$ -alkylcarbonyl; heteroarylcarbonyl; heteroarylcarbonyl; aryl- $C_{3.6}$ -cycloalkylcarbonyl; cycloalkylcarbonyl; or R^7 - $C_{1.4}$ -alkylcarbonyl, wherein the bridging $C_{1.4}$ -alkyl group may additionally be monosubstituted with aryl, and R^7 represents arylaminocarbonyl, heteroarylaminocarbonyl, $C_{1.6}$ -alkylaminocarbonyl, or aryl- $C_{1.3}$ -alkylaminocarbonyl, or aryl- $C_{1.3}$ -alkylaminocarbonyl;

wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, halo-C₁₋₆-alkyl, halo-C₁₋₆-alkoxy, C₁₋₆-alkylthio, and C₁₋₄-alkoxycarbonylamino.

xviii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-20 aryl-C₁₋₃-alkylaminocarbonyl; C₁₋₃-alkoxycarbonyl; arvl-C₁₋₆-alkylcarbonyl; aryl- C_{1-3} -alkoxy- C_{1-3} -alkylcarbonyl; arylcarbonyl-C₁₋₄-alkylcarbonyl; aryloxy- C_{1-3} -alkylcarbonyl; cycloalkyl-C₁₋₃-alkylcarbonyl; diaryl-C₁₋₃-alkylcarbonyl; aryl-C₃₋₆-cycloalkylcarbonyl; or R⁷-C₁₋₄-alkylcarbonyl, wherein the bridging C₁₋₄-alkyl group may additionally be mono-substituted with aryl, and R⁷ represents arylaminocarbonyl, 25 heteroarylaminocarbonyl,

C₁₋₆-alkylaminocarbonyl, or aryl-C₁₋₃-alkylaminocarbonyl;

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wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy, C_{1-6} -alkoxy, C_{1-6} -alkyl, C_{1-6} -alkylsulfonyl, halogen, hydroxy, halo- C_{1-6} -alkyl, halo- C_{1-6} -alkoxy, C_{1-6} -alkylthio, and C_{1-4} -alkoxycarbonylamino.

xix) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-C₁₋₃-alkoxycarbonyl;

aryl- C_{1-3} -alkylaminocarbonyl; aryl- C_{1-6} -alkylcarbonyl; aryloxy- C_{1-3} -alkylcarbonyl; diaryl- C_{1-3} -alkylcarbonyl; or R^7 - C_{1-4} -alkylcarbonyl, wherein the bridging C_{1-4} -alkyl group may additionally be mono-substituted with aryl, and R^7 represents arylaminocarbonyl, or C_{1-6} -alkylaminocarbonyl;

- wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, halo-C₁₋₆-alkyl, halo-C₁₋₆-alkoxy, C₁₋₆-alkylthio, and C₁₋₄-alkoxycarbonylamino.
- xx) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-C₁₋₂-alkoxycarbonyl; aryl-C₁₋₂-alkylaminocarbonyl; aryl-C₁₋₄-alkylcarbonyl; aryloxy-C₁₋₂-alkylcarbonyl; or diaryl-C₂₋₃-alkylcarbonyl; or R⁷-C₂₋₄-alkylcarbonyl, wherein the bridging C₂₋₄-alkyl group may additionally be mono-substituted with aryl, and R⁷ represents arylaminocarbonyl, or C₁₋₄-alkylaminocarbonyl;
- wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy, C_{1-6} -alkoxy, C_{1-6} -alkyl, C_{1-6} -alkylsulfonyl, halogen, hydroxy, trifluoromethyl, and trifluoromethoxy.
- any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-C₁₋₂-alkylaminocarbonyl; wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, trifluoromethyl, and trifluoromethoxy.
- 25 xxii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-C₁₋₂-alkoxycarbonyl; aryl-C₁₋₄-alkylcarbonyl; aryloxy-C₁₋₂-alkylcarbonyl; or diaryl-C₂₋₃-alkylcarbonyl; wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, trifluoromethyl, and trifluoromethoxy.
 - xxiii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to xxii), wherein, in case R⁶ represents a group which contains

aryl, the aryl group is phenyl which unsubstituted, or mono- or di-substituted with a group independently selected from C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, and trifluoromethyl.

- xxiv) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R^6 represents C_{1-4} -alkylcarbonyl (especially acetyl); or aryl- C_{2-4} -alkylcarbonyl, wherein aryl is unsubstituted, mono- or disubstituted with a group independently selected from C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, and trifluoromethyl.
- 10 xxv) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) and iv) to xvi), wherein R⁶ represents aryl-C₂₋₄-alkylcarbonyl, wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₄-alkoxy, C₁₋₄-alkyl, halogen, and trifluoromethyl.
- 15 xxvi) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to xxv), wherein, in case R⁶ represents a group which contains a carbonyl group and one or more aryl moieties, said group is such that it contains a bridging group between the carbonyl group and said aryl moiety (moieties) of said R⁶, wherein the carbonyl moiety and at least one of the aryl moieties are directly attached to different atoms of said bridging group.
 - xxvii) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to xxv), wherein, in case R⁶ represents a group which contains a carbonyl group and exactly one aryl moiety, said group is such that it contains a bridging group between the carbonyl group and said aryl moiety of said R⁶, wherein the carbonyl moiety and the aryl moiety are directly attached to the same atom of said bridging group.
 - xxviii) A further embodiment of the invention relates to compounds of Formula I according to embodiment i), wherein
- 30 R¹ represents hydrogen, or halogen;

- R² represents hydrogen, trifluoromethyl, or halogen;
- R³ represents hydrogen, or halogen;

 R^4 represents hydrogen, halogen (especially chloro or bromo), or C_{1-6} -alkylsulfonyl (especially methanesulfonyl);

 R^5 represents hydrogen, C_{1-6} -alkyl, cycloalkyl- C_{1-4} -alkyl, C_{1-3} -alkoxy- C_{1-4} -alkyl, aryl- C_{1-4} -alkyl, or aryloxy- C_{1-4} -alkyl;

wherein aryl is unsubstituted, mono-substituted with a group selected from trifluoromethyl; and

 R^6 C_{1-9} -alkylaminocarbonyl; C_{1-9} -alkylcarbonyl; represents C_{1-9} -alkoxycarbonyl; arylalkenylcarbonyl; arylaminocarbonyl; aryl-C₁₋₃-alkoxy-C₁₋₃-alkoxycarbonyl; aryl-C₁₋₃alkoxycarbonyl; aryl-C₁₋₃-alkylaminocarbonyl; aryl-C₁₋₆-alkylcarbonyl; aryl-C₁₋₃-alkoxy-C₁₋₃-alkylcarbonyl; arvlcarbonvl; arylcarbonyl-C₁₋₄-alkylcarbonyl; aryloxy-C1-3arvlsulfonylaminocarbonyl; cycloalkyl-C₁₋₃-alkylcarbonyl; alkylcarbonyl; diaryl-C₁₋₃alkylcarbonyl; heterocyclylcarbonyl; heteroaryl-C₁₋₃-alkylcarbonyl; heteroarylcarbonyl; aryl-C₃₋₆-cycloalkylcarbonyl; cycloalkylcarbonyl; or R⁷-C₁₋₄-alkylcarbonyl, wherein the bridging C₁₋₄-alkyl group may additionally be mono-substituted with aryl or disubstituted R^7 with hydroxy. and represents arylaminocarbonyl, heteroarylaminocarbonyl, C_{1-6} -alkylaminocarbonyl, or aryl- C_{1-3} -alkylaminocarbonyl;

wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy; C_{1-6} -alkoxy; C_{1-6} -alkyl; C_{1-6} -alkylsulfonyl; halogen; hydroxy; trifluoromethyl; trifluoromethoxy; C_{1-6} -alkylthio; and C_{1-4} -alkoxycarbonylamino.

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xxix) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to xxviii), wherein the position C(3) of the tetrahydrocarbazole ring of Formula I is (S)-configurated.

25 xxx) A further embodiment of the invention relates to compounds of Formula I according to any one of embodiments i) to xxviii), wherein the position C(3) of the tetrahydrocarbazole ring of Formula I is (R)-configurated.

In another embodiment preferred compounds of Formula I are selected from the group consisting of:

(3S)-[3-(3,3-diphenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3R)-{3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-[6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3R)-{3-[2-(4-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-[6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[3-(4-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 15 (3S)-(3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid; and
 - (3S)-{3-[2-(4-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid.
- In another embodiment preferred compounds of Formula I are selected from the group consisting of:
 - (3R)-{3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 25 yl}-acetic acid;
 - (3S)-[6-fluoro-3-(4-oxo-4-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 30 (3S)-{3-[(2,3-dihydro-1*H*-indole-2-carbonyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-ethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;

- (3R)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-{6-fluoro-3-[methyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3S)-[6-fluoro-3-(3-1*H*-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- (3S)-[3-(3-benzo[1,3]dioxol-5-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 10 (3S)-{6-fluoro-3-[ethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[2-(4-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-[3-(2,3-diphenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[6-fluoro-3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[3-(3,4-difluoro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 20 (3R)-[3-(2-benzyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[propyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-[3-(2-benzyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; (3R)-(3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-{6-fluoro-3-[2-(4-methoxy-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{3-[3-(4-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 30 yl}-acetic acid;
 - (3S)-{3-[4-(4-bromo-phenyl)-4-oxo-butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-propyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-(3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-{3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 5 yl}-acetic acid;
 - (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(6-fluoro-3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 10 yl}-acetic acid;
 - (3S)-[3-(3-1H-benzoimidazol-2-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[3-(4-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[6-fluoro-3-(2-p-tolyl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 20 (3R)-[3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-fluoro-3-(3-p-tolyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(2-p-tolyl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3S)-[3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 30 (3S)-[6-fluoro-3-(3-naphthalen-2-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[4-(4-methanesulfonyl-phenyl)-4-oxo-butyrylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-[3-(3-phenylsulfonyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-{6-fluoro-3-[3-(4-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-
- 5 9-yl}-acetic acid;

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- (3R)-[3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-{3-[2-(4-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-[6-fluoro-3-(3-p-tolyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-{6-fluoro-3-[3-(4-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{6-fluoro-3-[3-(4-hydroxy-3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{6-fluoro-3-[2-(3-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[2-(4-methoxy-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{3-[2-(3-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(3-tert-butoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - $(3R)-\{3-[2-(3,4-\text{dichloro-phenyl})-\text{acetylamino}]-6-\text{fluoro-1},2,3,4-\text{tetrahydro-9}H-\text{carbazol-9}-\text{carbazo$
- 25 yl}-acetic acid;
 - (3S)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid; and
 - (3S)-[6-fluoro-3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid.

In another embodiment preferred compounds of Formula I are selected from the group consisting of:

(3R)-[3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3S)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 5 (3S)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-[3-(3-phenylsulfonyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-benzyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[3-(3-naphthalen-1-yl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 10 (3S)-(3-decanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(3-naphthalen-2-yl-acryloylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[2-(4-tert-butyl-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3R)-(3-benzyloxycarbonylamino-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-benzyloxycarbonylamino-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(3-pyridin-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-
- 20 acetic acid;
 - (3R)-[3-(3-benzyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-methyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-[3-(3-phenyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-cyclopentyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-butyrylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-benzyloxycarbonylamino-8-chloro-5-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-
- 30 acetic acid:
 - (3S)-(3-benzyloxycarbonylamino-8-chloro-5-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-heptanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3R)-[3-(3-cyclopentyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-(3-decanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-(3-benzoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-[3-(3-butyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3S)-{6-fluoro-3-[(1H-indole-2-carbonyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-[3-(3-methyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; and (3S)-[3-(3-butyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid.
- In another embodiment preferred compounds of Formula I are selected from the group consisting of:
 - (3R)-[3-(3-Benzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-Benzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 15 (3R)-[3-(3-Benzyl-ureido)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-Benzyl-ureido)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-[8-Chloro-6-fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[8-Chloro-6-fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 25 (3S)-(3-Benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-8-bromo-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-Benzyloxycarbonylamino-8-bromo-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- (3R)-(3-Benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 5 (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-methyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(3-Benzyloxycarbonylamino-7-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(8-Allyl-3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-8-chloro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 15 (3S)-{3-[3-(2,4-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-[6-Fluoro-3-(3-naphthalen-1-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{6-Fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 20 yl}-acetic acid;

- (3S)-{6-Fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-{6-Fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-{6-Fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 30 yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{6-Fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-{6-Fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{6-Fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[2-(2-methylphenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[2-(2-methylphenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 10 yl}-acetic acid;
 - (3S)-{3-[3-(2,5-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{3-[3-(2,6-Dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,5-Bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-methylsulfanyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-
- 20 carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-isopropyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 25 (3S)-{6-Fluoro-3-[3-(3-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,4-Dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-
- 30 yl}-acetic acid;
 - (3S)-{3-[3-(3,5-Bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{3-[3-(4-Ethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3S)-{6-Fluoro-3-[3-(3-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 5 (3S)-{6-Fluoro-3-[3-(4-methanesulfonyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,3-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2-Bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 10 yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-trifluoromethoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,4-Dimethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 15 (3S)-{3-[3-(3-Bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3-tert-Butoxycarbonylamino-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(S)-3-(4-fluoro-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-
- 20 9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(S)-3-(4-methoxy-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(2-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-(6-Fluoro-3-{[(2RS)-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{(2RS)-2-[(4-fluoro-phenylcarbamoyl)-methyl]-3-phenyl-
- propionylamino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid; (3*S*)-{3-[(2*RS*)-2-Benzyl-3,3-dimethyl-butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-{6-Fluoro-3-[3-(3-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[(2R)-2-methyl-3-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-[3-(2,2-Dimethyl-3-phenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-
- 10 9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(3-methyl-3-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-Fluoro-3-[(3S)-3-phenyl-butyrylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-[3-(2-Benzyloxy-acetylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(4-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; (3S)-{3-[(2R,3R)-2,3-Dihydroxy-3-(2-methoxy-phenylcarbamoyl)-propionylamino]-6-
- 20 (3R)-{8-Chloro-6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-{8-Chloro-6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-
- 25 carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 30 (3S)-{8-Chloro-6-fluoro-3½[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{8-Chloro-6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{8-Chloro-6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-[8-Chloro-6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[8-Chloro-6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 15 (3R)-{8-Chloro-6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-[8-Chloro-6-fluoro-3-(3-1H-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3S)-[8-Chloro-6-fluoro-3-(3-1H-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{8-Chloro-3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-
- 30 carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[2-(2-methylphenyl)-oxy-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{8-Chloro-6-fluoro-3-[2-(2-methylphenyl)-oxy-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-[3-(3-Benzo[1,3]dioxol-5-yl-propionylamino)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3S)-[3-(3-Benzo[1,3]dioxol-5-yl-propionylamino)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{8-Chloro-6-fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9Hcarbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-[8-Chloro-6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-
- 20 yl]-acetic acid;

- (3S)-[8-Chloro-6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[6-Fluoro-3-(1-methyl-3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3S)-{3-[3-(2-Chloro-benzyl)-1-methyl-ureido]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-Benzyl-1-methyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(Benzyloxycarbonyl-methyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - {(3S)-3-[(2-Chloro-benzyloxycarbonyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-(6-Fluoro-3-{[2-(4-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- (3S)-(6-Fluoro-3-{methyl-[2-(4-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 5 (3S)-(6-Fluoro-3-{[2-(2-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-indan-2-yl-acetyl)-methyl-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{[2-(3-Chloro-phenyl)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-
- 10 carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{methyl-[2-(3-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[2-(3-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 15 (3S)-(3-{[2-(2-Chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-{[2-(4-Chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[3-(3-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-
- 20 carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{methyl-[2-(2-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[(3,3-Diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 25 (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[(3-1H-indol-3-yl-propionyl)-methyl-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(2-Benzyloxy-acetyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 30 yl}-acetic acid;
 - (3S)-{3-[(2,3-Diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-{6-Fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(3-phenyl-propyl)-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3S)-{3-[Acetyl-(3-phenyl-propyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{3-[3-Benzyl-(1-cyclopropylmethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(Benzyloxycarbonyl-cyclopropylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[Cyclopropylmethyl-(3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- 15 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - $(3S)-\{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydr$
- 20 9H-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(3-{Acetyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- 25 (3S)-(6-Fluoro-3-{propionyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{(3-phenyl-propionyl)-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-[2-(4-trifluoromethyl-phenoxy)-
- 30 ethyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-phenoxy-ethyl)-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{6-Fluoro-3-[((S)-2-methyl-3-phenyl-propionyl)-(2-phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{6-Fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(2-phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{3-[Acetyl-(2-phenoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-Benzyl-1-(2-methoxy-ethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[Benzyloxycarbonyl-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-
- 10 carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-((S)-2-methyl-3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-(6-Fluoro-3-{(2-methoxy-ethyl)-[3-(2-methoxy-phenyl)-propionyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[[2-(3-Chloro-phenoxy)-acetyl]-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(3,3-Diphenyl-propionyl)-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-
- 20 9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-(2-naphthalen-1-yl-acetyl)-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-(6-Fluoro-3-{[(2S)-2-methyl-3-phenyl-propionyl]-phenethyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 25 (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-phenethyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[3-(Acetyl-phenethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-naphthalen-1-yl-acetyl)-phenethyl-amino]-1,2,3,4-tetrahydro-9H-
- 30 carbazol-9-yl}-acetic acid,
 - (3S)-{6-Fluoro-3-[phenethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-[3-(3-Benzyl-1-naphthalen-1-ylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[3-(Benzyloxycarbonyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3S)-{6-Fluoro-3-[naphthalen-1-ylmethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[((S)-2-methyl-3-phenyl-propionyl)-naphthalen-1-ylmethyl-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-naphthalen-1-ylmethyl-amino}-
- 10 1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[(3,3-Diphenyl-propionyl)-naphthalen-1-ylmethyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(Acetyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 15 (3S)-[6-Fluoro-3-(naphthalen-1-ylmethyl-propionyl-amino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(2-methylphenyl)-carbamoyl-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(3-methoxy-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-
- 20 tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3*S*)-{3-[(*RS*)-2-Benzyl-3-(4-chloro-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(4-fluoro-benzylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 25 [(3S)-3-((RS)-2-Benzyl-3-propylcarbamoyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(3-thiophen-2-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)- $\{3-[3-(3-Chloro-isoxazol-5-yl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9<math>H$ -
- 30 carbazol-9-yl}-acetic acid;
 - (3S)-[6-Fluoro-3-(3-pyrimidin-2-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3S)-{6-Fluoro-3-[3-phenyl-4-([1,3,4]thiadiazol-2-ylcarbamoyl)-butyrylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-[3-(1,3-Dibenzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-(3-{Acetyl-[2-(2-fluoro-phenyl)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-
- 5 carbazol-9-yl)-acetic acid;
 - (3S)-(3-{Acetyl-[2-(3-fluoro-phenyl)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[3-(3-Benzyl-1-cyclohexylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; and
- 10 (3S)-(3-{Cyclohexylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid.

Unless explicitly stated otherwise, the general terms and names used hereinbefore and hereinafter preferably have within the context of this disclosure the following meanings:

Where the plural form is used for compounds, salts, pharmaceutical compositions, diseases and the like, this is intended to mean also a single compound, salt, or the like.

Any reference to a compound of Formula I is to be understood as referring also to salts (especially pharmaceutically acceptable salts) of a compound of Formula I, as appropriate and expedient.

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The term "pharmaceutically acceptable salts" refers to non-toxic, inorganic or organic acid and/or base addition salts. Reference can be made to "Salt selection for basic drugs", *Int. J. Pharm.* (1986), 33, 201-217.

- 25 The term "bridging group" or "bridging atom" as used herein means a group or atom that is placed between two distinct moieties of the molecule.
 - Examples for such bridging groups are the bridging C_{1-6} -alkyl group in an aryl- C_{1-6} -alkylcarbonyl group which is placed between the aryl and the carbonyl moiety; the bridging C_{1-4} -alkyl group in an aryl- C_{1-4} -alkyl group, which is placed between the aryl moiety and the parent molecular moiety; or the bridging C_{1-4} -alkyl group in an R^7 - C_{1-4} -alkylcarbonyl group which is placed between the R^7 -group and the carbonyl moiety.

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An example for such bridging atoms is the bridging carbon atom of a methylene (-CH₂-) group in a benzyloxy or benzylamino group, which is placed between the phenyl ring and the oxygen atom, or the phenyl ring and the nitrogen atom, respectively.

The term "alkyl" as used herein, alone or in any combination, refers to a saturated aliphatic group including a straight or branched hydrocarbon chain containing the indicated number of carbon atoms, for example C₁₋₉-alkyl, i.e. an alkyl having 1-9 carbon atoms. Representative examples of alkyl groups include, but are not limited to, methyl, ethyl, n-propyl, iso-propyl, n-butyl, tert-butyl, iso-butyl (or also referred to as "2-methylpropyl"), n-pentyl (also referred to as "n-amyl"), iso-pentyl (also referred to as "iso-amyl"), n-hexyl, n-heptyl, and n-octyl. Preferred are methyl, ethyl, n-propyl, iso-propyl, n-butyl, and iso-propyl.

A bridging C_{1-6} -alkyl group as used in "aryl- C_{1-6} -alkylcarbonyl" as defined for R^6 preferably means a C_{2-4} -alkyl group, whereby the aryl moiety and the carbonyl moiety are preferably attached to two different carbon atoms of the bridging C_{2-4} -alkyl group. Preferred examples of bridging C_{1-6} -alkyl groups as used in R^6 being aryl- C_{1-6} -alkylcarbonyl are ethane-1,2-diyl, propane-1,2-diyl, propane-1,3-diyl, and 2-methyl-propane-1,2-diyl.

In another embodiment a bridging C_{1-6} -alkyl group as used in "aryl- C_{1-6} -alkylcarbonyl" as defined for R^6 means the respective C_{1-6} -alkyl group, whereby the aryl moiety and the carbonyl moiety preferably are attached to the same carbon atom of the bridging C_{1-6} -alkyl group. Examples of such bridging C_{1-6} -alkyl groups as used in R^6 being aryl- C_{1-6} -alkylcarbonyl are a methylene group (preferred) and ethane-1,1-diyl.

A bridging C_{1-3} -alkyl group as used in "diaryl- C_{1-3} -alkylcarbonyl" as defined for R^6 preferably means a C_{2-3} -alkyl group, whereby the carbonyl moiety and at least one of the aryl groups are preferably attached to two different carbon atoms of the bridging C_{2-3} -alkyl group. Preferred examples of such bridging C_{1-3} -alkyl groups as used in R^6 being diaryl- C_{1-3} -alkylcarbonyl are ethane-1,2,2-triyl, and ethane-1,1,2-triyl.

A bridging C_{1-4} -alkyl group as used in " R^7 - C_{1-4} -alkylcarbonyl, wherein the bridging C_{1-4} -alkyl group may additionally be mono-substituted with aryl" as defined for R^6 preferably means a C_{2-4} -alkyl group (particularly, if the additional aryl substituent is present, it means propane-1,2,3-triyl) whereby the group R^7 , the carbonyl moiety, and the aryl substituent (if present) preferably are attached to two (three, if the additional aryl substituent

is present) different carbon atoms of the bridging $C_{2.4}$ -alkyl group. Examples of bridging $C_{1.4}$ -alkyl groups as used in R^6 being " R^7 - $C_{1.4}$ -alkylcarbonyl, wherein the bridging $C_{1.4}$ -alkyl group may additionally be mono-substituted with aryl" are ethane-1,2-diyl, propane-1,2-diyl, propane-1,3-diyl, 2-phenyl-propane-1,3-diyl, and 1-phenyl-propane-2,3-diyl; preferred are 2-phenyl-propane-1,3-diyl, and 1-phenyl-propane-2,3-diyl, especially 1-phenyl-propane-2,3-diyl.

An example of a bridging C_{1-4} -alkyl group as used in R^6 being " R^7 - C_{1-4} -alkylcarbonyl, wherein the bridging C_{1-4} -alkyl group may additionally be disubstituted with hydroxy" is 1,2-dihydroxyethane-1,2-diyl.

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The term "alkenyl" as used herein, alone or in any combination, refers to a straight or branched hydrocarbon chain containing 2-7, preferably 2-4, carbon atoms with at least one carbon-carbon double bond (R_aR_bC=CR_cR_d). R_a-R_d refer to substituents, each individually and independently selected from hydrogen and alkyl. Representative examples of alkenyl include, but are not limited to, ethenyl (also referred to as "vinyl"), 2-propenyl (also referred to as "allyl"), 2-methyl-2-propenyl, 3-butenyl, 4-pentenyl, and 5-hexenyl, especially ethenyl or 2-propenyl.

The term " C_{1-2} -alkylendioxy" as used herein, alone or in any combination, refers to an $-O(CH_2)_nO$ - group, wherein n is 1 or 2, and wherein the oxygen atoms are attached to two adjacent carbon atoms of the parent molecular moiety, preferably the two adjacent carbon atoms of a phenyl ring.

The term "alkoxy" as used herein, alone or in any combination, refers to an alkyl group attached to the parent molecular moiety through an oxygen bridge. Representative examples of alkoxy include, but are not limited to, methoxy, ethoxy, propoxy, 2-propoxy, butoxy, tert-butoxy, pentoxy, and hexyloxy, especially methoxy.

The term "alkoxycarbonyl", as used herein, alone or in any combination, refers to an alkoxy group attached to the parent molecular moiety through a carbonyl group. Representative examples of alkoxycarbonyl include, but are not limited to, methoxycarbonyl, ethoxycarbonyl, n-propoxycarbonyl, and iso-butoxycarbonyl, especially methoxy. R⁶ representing alkoxycarbonyl preferably means *n*-propoxycarbonyl, and *iso*-butoxycarbonyl.

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The term "alkylcarbonyl" as used herein, alone or in any combination, refers to an alkyl group attached to the parent molecular moiety through a carbonyl group. Representative examples of alkylcarbonyl include, but are not limited to, acetyl, 1-oxopropyl, 2,2-dimethyl-1-oxopropyl, 1-oxobutyl, and 1-oxopentyl. Further examples are 1-oxo-2-methyl-butyl, and 3,3-dimethyl-1-oxopropyl. Preferred are acetyl, 1-oxopropyl, 1-oxobutyl, 1-oxo-2-methyl-butyl, and 3,3-dimethyl-1-oxopropyl.

The term "alkylsulfonyl", as used herein, alone or in any combination, refers to an alkyl group attached to the parent molecular moiety through a sulfonyl group. Representative examples of alkylsulfonyl include, but are not limited to, methanesulfonyl and ethanesulfonyl, preferably methanesulfonyl.

The term "aminocarbonyl" (also referred to as "carbamoyl") as used herein, alone or in any combination, refers to an amino group attached to the parent molecular moiety through a carbonyl group.

The term "aryl" or "aryl group", as used herein, alone or in any combination, refers to an aromatic carbocyclic group from 6 to 14 carbon atoms having a single ring or multiple condensed rings, and preferably refers to a phenyl or naphthyl, very preferably to a phenyl group. An aryl group is preferably unsubstituted. In another embodiment the aryl group may be substituted as specifically described in the embodiments of the present invention. If an aryl group is mono- or di-substituted, preferred but not limiting examples are 4-trifluoromethyl-phenyl, 3-trifluoromethyl-phenyl, 2,5-bis-trifluoromethyl-phenyl, 3,5-bistrifluoromethyl-phenyl, 3-trifluoromethoxy-phenyl, 4-chlorophenyl. 3-chlorophenyl, 2-chlorophenyl, 2,6-dichlorophenyl, 2,4-dichlorophenyl, 4-methylphenyl, 3-methylphenyl, 2-methylphenyl, 2,4-dimethylphenyl, 4-ethylphenyl, 4-isopropylphenyl, 4-tert.-butylphenyl, 4-fluorophenyl, 3-fluorophenyl, 2-fluorophenyl, 3,4-difluorophenyl, 4-iodophenyl, 3-bromophenyl, 2-bromophenyl, 4-methoxyphenyl, 3-methoxyphenyl, 2-methoxyphenyl, 2,3-dimethoxyphenyl, 2,4-dimethoxyphenyl, 2,5-dimethoxyphenyl, 4-hydroxyphenyl, 3-hydroxyphenyl, 2-hydroxyphenyl, 4-methylthio-phenyl, 4-methanesulfonyl-phenyl, and 3-tert.-butoxycarbonylamino-phenyl.

The term "arylalkenyl", as used herein, alone or in any combination, refers to an aryl group attached to the parent molecular moiety through an alkenyl group. Representative examples of arylalkenyl include, but are not limited to, 2-phenylethenyl, 3-phenylpropen-2-yl, and 2-naphth-2-ylethenyl.

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The term "aryloxy", as used herein, alone or in any combination, refers to an aryl group attached to the parent molecular moiety through an oxygen bridge.

The term "arylsulfonyl", as used herein, alone or in any combination, refers to an aryl group attached to the parent molecular moiety through a sulfonyl group.

The term "carbonyl", as used herein, alone or in any combination, refers to a -C(O)- group.

The term "thiocarbonyl", as used herein, alone or in any combination, refers to a -C(S)-group.

The term "carboxy", as used herein, alone or in any combination, refers to a -CO₂H group.

The term "cyano", as used herein, alone or in any combination, refers to a -C≡N group.

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The term "cycloalkyl", as used herein, alone or in any combination, refers to a saturated cyclic hydrocarbon moiety containing 3-10 carbon atoms (for example C₃₋₆-cycloalkyl means a cycloalkyl having 3 to 6 carbon atoms), preferably a cyclopentyl or cyclohexyl radical, whereby said radicals, especially the cyclopentyl radical, may be substituted with an annellated benzene ring. In another embodiment said benzene ring may be mono-, or disubstituted, wherein the substituent(s) are independently selected from C₁₋₄-alkyl, C₁₋₄-alkoxy, and halogen (especially C₁₋₄-alkoxy). In case the cycloalkyl group is used as a bridging group as for example in an "aryl-C₃₋₆-cycloalkylcarbonyl" group as defined for R⁶, it is preferably a cyclopropane-diyl, cyclopentane-diyl or cyclohexane-diyl radical (especially cyclopropane-ly2-diyl) said radical being preferably unsubstituted.

The term "formyl", as used herein, alone or in any combination, refers to a -C(O)H group.

The term "halo" or "halogen", as used herein, alone or in any combination, refers to fluorine, bromine, chlorine, or iodine, and unless specifically indicated otherwise, it refers to especially fluorine or chlorine.

- The term "haloalkyl", as used herein, alone or in any combination, refers to an alkyl group having at least one hydrogen atom replaced with a halogen atom. Representative examples of haloalkyl include, but are not limited to, chloromethyl, 2-fluoroethyl, trifluoromethyl, pentafluoroethyl, and 2-chloro-3-fluoropentyl, preferably trifluoromethyl.
- The term "haloalkoxy", as used herein, alone or in any combination, refers to an alkoxy group having at least one hydrogen atom replaced with a halogen atom. Representative examples of haloalkoxy include, but are not limited to, chloromethoxy, 2-fluoroethoxy, trifluoromethoxy, and pentafluoroethoxy, preferably trifluoromethoxy.
- The term "heterocyclyl", as used herein, alone or in any combination, refers to a monocyclic, bicyclic or polycyclic non-aromatic ring system containing up to 15 ring atoms (preferably 5 to 10 ring atoms), at least one of these being a heteroatom, preferably one to three heteroatoms, independently selected from nitrogen, oxygen or sulfur, preferably nitrogen. This ring system may be saturated, partially saturated, or unsaturated, and preferably contains one or two ring heteroatoms selected from nitrogen. Representative examples of heterocyclyl include, but are not limited to, dihydroindolyl (especially dihydroindol-2-yl) and chromane (especially chroman-3-yl).

The term "heteroaryl", as used herein, alone or in any combination, has the meaning as defined for heterocyclyl above, with the difference that the ring system is aromatic.

The term "heteroarylalkyl", as used herein, alone or in any combination, refers to a heteroaryl group attached to the parent molecular moiety through an alkyl group. Representative examples of heteroarylalkyl include, but are not limited to, thienylalkyl (especially thien-2-ylalkyl), isoxazolylalkyl (especially 3-chloro-isoxazole-5-ylalkyl), pyridylalkyl (especially pyridine-3-ylalkyl), pyrimidylalkyl (especially pyrimidine-2-ylalkyl), indolylalkyl (especially indol-3-ylalkyl), and benzoimidazolylalkyl (especially

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benzoimidazol-2-ylalkyl).

The term "heteroarylcarbonyl", as used herein, alone or in any combination, refers to a heteroaryl group attached to the parent molecular moiety through a carbonyl group. A representative example of heteroarylcarbonyl includes, but is not limited to, indolylcarbonyl (especially indol-2-ylcarbonyl).

The term "heteroarylamino", as used herein, alone or in any combination, refers to a heteroaryl group attached to the parent molecular moiety through an amino group. A representative example of heteroarylamino includes, thiadiazolylamino (especially 1,3,4-thiadiazol-2-yl-amino).

The term "heterocyclylcarbonyl", as used herein, alone or in any combination, refers to a heterocyclyl group attached to the parent molecular moiety through a carbonyl group. A representative example of heterocyclylcarbonyl includes, dihydroindolylcarbonyl (especially dihydroindol-2-ylcarbonyl) and chromanecarbonyl (especially chroman-3-ylcarbonyl).

The term "hydroxy" or "hydroxyl" as used herein, alone or in any combination, refers to an -OH group

The term "nitro", as used herein, alone or in any combination, refers to a -NO2 group.

The term "oxo", as used herein, alone or in any combination, refers to an =O group.

The term "oxy", as used herein, alone or in any combination, refers to an -O- group.

The terms "sulfonyl", as used herein, alone or in any combination, refer to an -S(O)2- group.

The term "acyl" as used herein refers to groups containing a carbonyl group that is linked to a carbon atom such as C₁₋₉-alkylcarbonyl, arylalkenylcarbonyl, aryl-C₁₋₆-alkylcarbonyl, arylcarbonyl, arylcarbonyl, arylcarbonyl, arylcarbonyl, arylcarbonyl, arylcarbonyl, cycloalkyl-C₁₋₃-alkylcarbonyl, diaryl-C₁₋₃-alkylcarbonyl,

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heterocyclylcarbonyl, heteroaryl-C₁₋₃-alkylcarbonyl, heteroarylcarbonyl, C₃₋₆-cycloalkylcarbonyl, cycloalkylcarbonyl, or R⁷-C₁₋₄-alkylcarbonyl groups as used in R⁶ of Formula I.

In analogy, the term "acylamino" as used herein refers to an acyl group as described before that is linked to the parent molecular moiety through a nitrogen atom.

The term "ureido" as used herein refers to groups such as C_{1.9}-alkylaminocarbonyl. arylaminocarbonyl, or aryl-C_{1.3}-alkylaminocarbonyl that are linked to the parent molecular moiety through a nitrogen atom.

The term "oxycarbonylamino" as used herein refers to groups such as C_{1.9}-alkoxycarbonyl, aryl-C₁₋₃-alkoxycarbonyl, or aryl-C₁₋₃-alkoxy-C₁₋₃-alkoxycarbonyl that are linked to the parent molecular moiety through a nitrogen atom.

The compounds of Formula I may contain one or more stereogenic or asymmetric centers, such as one or more asymmetric carbon atoms. Substituents at a double bond or a ring may be present in cis- (= Z-) or trans (= E-) form unless indicated otherwise. The compounds of Formula I may thus be present as mixtures of stereoisomers or preferably as pure stereoisomers. Mixtures of stereoisomers may be separated in a manner known to a person skilled in the art.

20 The compounds of the present invention have useful, in particular pharmacologically useful, properties. They bind to the CRTH2 receptor and thus modulate the effects of endogenous PGD₂. The compounds according to Formula I may be used for the preparation of a medicament, and are suitable, for the prevention and/or treatment of diseases selected from the group consisting of chronic and acute allergic/immune diseases/disorders, comprising allergic asthma, rhinitis, allergic rhinitis, chronic obstructive pulmonary disease (COPD), dermatitis, inflammatory bowel disease, rheumatoid arthritis, allergic nephritis, conjunctivitis, atopic dermatitis, bronchial asthma, food allergy, systemic mast cell disorders, anaphylactic shock, urticaria, eczema, itching, inflammation, ischemiareperfusion injury, cerebrovascular disorders, pleuritis, ulcerative colitis, eosinophil-related diseases comprising Churg-Strauss syndrome and sinusitis, and basophil-related diseases, comprising basophilic leukemia and basophilic leukocytosis, in humans and other mammals.

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A compound of Formula I or a pharmaceutical composition comprising a compound of Formula I may be used for the preparation of a medicament, and is suitable, for the prevention and/or treatment of diseases selected from the group consisting of both chronic and acute allergic/immune diseases/disorders such as those mentioned in the paragraph before, such as especially allergic asthma, rhinitis, allergic rhinitis, COPD, dermatitis, inflammatory bowel disease, and rheumatoid arthritis.

In another aspect, the compounds of Formula I may be used as standard or reference compounds in tests or assays involving the modulation of the CRTH2 receptor. Such compounds could be made commercially available for use as a reference, quality standard or control, for example in pharmaceutical research when developing new assays or protocols related to CRTH2 receptor activity.

As mentioned earlier, compounds of Formula I modulate the PGD₂ activation of the CRTH2 receptor. The biological effect of such compounds may be tested in a variety of *in vitro*, *ex vivo* and *in vivo* assays. The ability of the compounds of Formula I to bind to the CRTH2 receptor may be measured by methods similar to those described in the literature (Arimura A. et al., J. Pharmacol. Exp. Ther. 2001, 298(2), 411-419; and Sawyer N. et al., Br. J. Pharmacol, 2002, 137, 1163-1172, respectively) and by the assays described below in the experimental part.

A functional assay with cells expressing the human CRTH2 (hCRTH2) receptor may be used to detect changes in the levels of intracellular calcium concentration following compound treatment. After addition of the compound, the cells are challenged with PGD₂. In a Fluorescent Imaging Plate Reader (FLIPRTM, Molecular Devices, Sunnyvale, California), fluorescence emission is recorded during both additions, emission peak values above base level after PGD₂ addition are exported, and normalized to low controls (no PGD₂) and high controls (no active compound). The relative values of the remaining activity are used to determine IC₅₀ values by curve fitting the data to a single site to a four-parameter logistic sigmoid dose response curve of the equation (A+((B-A)/(1+((C/x)^D)))).

The ability of the compounds to modulate PGD₂ induced changes of intracellular calcium

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levels via CRTH2 receptor activation may be measured by methods known to one skilled in the art or by the assay described below in the experimental part.

The present invention relates also to pharmaceutical compositions comprising a compound of Formula I, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier; to the use of such pharmaceutical compositions for the therapeutic, in a broader aspect of the invention also prophylactic, treatment of the diseases/disorders mentioned herein; to the compounds of Formula I, or pharmaceutically acceptable salts thereof, for use as a medicament; and to the use of a compound of Formula I, or a pharmaceutically acceptable salt thereof, for the preparation of a pharmaceutical composition for the prevention and/or treatment of the diseases/disorders mentioned herein.

The pharmaceutical compositions according to the invention are those for enteral administration, such as nasal, buccal, rectal, dermal or, especially oral administration, and for parenteral administration, such as intramuscular, intravenous or subcutaneous, intrasternal, intravitreal, injection or infusion, to warm-blooded animals, especially humans. Such compositions comprise an effective dose of the pharmaceutically active ingredient, alone or together with a pharmaceutically acceptable carrier. The dosage of the active ingredient depends on the species of warm-blooded animal, the body weight, the age and the individual conditions, individual pharmacokinetic data, the disease/disorder to be treated and the mode of administration.

The production of the pharmaceutical compositions can be effected in a manner which will be familiar to any person skilled in the art (see for example Mark Gibson, Editor, Pharmaceutical Preformulation and Formulation, IHS Health Group, Englewood, CO, USA, 2001; Remington, *The Science and Practice of Pharmacy*, 20th Edition, Philadelphia College of Pharmacy and Science) by bringing the described compounds of Formula I or their pharmaceutically acceptable salts, optionally in combination with other therapeutically valuable substances, into a galenical administration form together with suitable, non-toxic, inert, therapeutically compatible solid or liquid carrier materials and, if desired, usual pharmaceutical adjuvants.

In one embodiment, the invention also relates to a method for the prevention or treatment of diseases/disorders that respond to an inhibition of the CRTH2 receptor in particular to a method for the prevention or treatment of the diseases/disorders mentioned herein, said methods comprising administering to a patient a pharmaceutically active amount of a compound of Formula I, or a pharmaceutically acceptable salt thereof.

A further aspect of the invention is a process for the preparation of compounds of Formula I. Compounds according to Formula I of the present invention can be prepared according to the sequence of reactions outlined in the schemes below wherein R¹, R², R³, R⁴, R⁵, R⁶ and R⁷ are as defined for Formula I. Other abbreviations used are defined in the experimental section. In some instances the generic groups R¹, R², R³, R⁴, R⁵, R⁶ and R⁷ might be incompatible with the assembly illustrated in the schemes below and, therefore, will require the use of protecting groups (PG). For example it may be necessary to protect reactive functional groups such as hydroxy, amino, imino, thio or carboxy groups, where these are desired in the final product, to avoid their unwanted participation in the reactions. The use of protecting groups is well known in the art (see for example "Protective Groups in Organic Synthesis", T.W. Greene, P.G.M. Wuts, Wiley-Interscience, 1999). It will be assumed that such protecting groups are as necessary in place. In the following description, for example, PG, when used as amino-protecting group, preferably refers to a group such as tert-butoxycarbonyl, benzyloxycarbonyl, or allyloxycarbonyl, most preferably tertbutoxycarbonyl. Further, L refers to a leaving group, such as activated (for examples as mesylate, active ester etc.) or non-activated hydroxy, or halo, in particular chloro or bromo. Further, R and R' independently refer to a C1-4-alkyl group, preferably ethyl or tert-butyl, whereby when R' is present R is preferably ethyl and R' is preferably tert.-butyl.

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In general, all chemical transformations can be performed according to well-known standard methodologies as described in the literature, for example those described by Larock R. C. in "Comprehensive organic transformations: a guide to functional group preparations", VCH publishers, 1999, or as described in the procedures below. The compounds obtained may also be converted into pharmaceutically acceptable salts thereof in a manner known per se.

Generally, compounds of Formula I are obtained from an ester of Structure 1, wherein R represents C₁₋₄-alkyl, preferably ethyl, or *tert*-butyl, by hydrolysis of the ester group using

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routine procedures, for example stirring an intermediate of Structure 1 with aq. lithium, sodium or potassium hydroxide in an organic co-solvent such as an alcohol, like MeOH or EtOH; THF; acetone; MeCN; or TFA, respectively.

$$R^{2}$$

$$R^{3}$$

$$R^{4}$$

$$R^{4}$$

$$R^{5}$$

$$R^{6}$$

$$R^{6}$$

$$R^{5}$$

$$R^{6}$$

$$R^{7}$$

$$R^{7}$$

$$R^{7}$$

$$R^{7}$$

$$R^{7}$$

$$R^{7}$$

$$R^{6}$$

$$R^{7}$$

$$R^{7$$

Structure 1, wherein R represents C₁₋₄-alkyl

An intermediate of Structure 1 is obtained by reacting an intermediate of Structure 2a or 2b, or a salt thereof, such as the hydrochloride salt, with a reagent of Formula L-R⁶, wherein R⁶ is as defined for Formula I and L is a leaving group as defined before. R⁶ transferring reagent of Structure L-R⁶ may be a chloroformate; or an acyl halide, preferably an acid chloride, or acid bromide, used as such; or generated *in situ* from the corresponding commercially available or well known carboxylic acid with an activating reagent, such as a halogenating reagent under conditions known to a skilled person, preferably by means of oxalyl chloride or phosphorous oxychloride; or an acyl anhydride, transferring R⁶ in the presence of a base, such as Et₃N, DIEA, N-ethyl-morpholine, N-methylpiperidine, or pyridine, in a suitable solvent, such as THF, or DCM.

In another aspect, an intermediate of Structure 2a or 2b is condensed with a commercially available or well known carboxylic acid in the presence of a coupling reagent, such as DCC, diisopropylcarbodiimide, HATU and the like, in the presence of a base described hereinabove, to form an intermediate of Structure 1.

In a further aspect, an intermediate of Structure 2a or 2b is reacted with a commercially available isocyanate or isothiocyanate in the presence of a base to form an intermediate of Structure 1.

$$R^{2}$$
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5}
 R^{5}
 R^{1}
 R^{2}
 R^{1}
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{1}
 R^{2}
 R^{1}
 R^{2}
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 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5}
 R^{5}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5

Structure

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2a: $R^5 \neq H$

2b: $R^5 = H$

2c

In a specific case, intermediates of Structure 1, wherein R⁴ represents an C₁₋₅-alkyl, allyl, vinyl, or a methanesulfonyl group, is obtained by reacting intermediates of Structure 2c wherein R⁴ represents halogen, preferably I or Br, or a methanesulfonyloxy, or a toluenesulfonyloxy group, with reagents such as tetramethyltin, allyltributyltin, a complex of vinylboronic anhydride and pyridine together with a base, such as K₂CO₃, in the presence of a palladium catalyst such as tetrakis(triphenylphosphine)palladium(0), or the like, or sodium methanesulfinate in the presence of copper (I) iodide, respectively, in a polar aprotic solvent such as DMF, or DME, or NMP, at a temperature between 60°C and 130°C.

A substituent R⁵ in an intermediate of Structure 2a is obtained by reacting an intermediate of Structure 2b with the respective aldehyde in a solvent such as DCM or the like in presence of a reducing agent, such as sodium triacetoxyborohydride, and a base, such as DIEA.

Alternatively, an intermediate of Structure 2a, wherein R⁵ is not hydrogen, is obtained from an intermediate of Structure 2b via a sulfonamide of Structure 3a. First, an intermediate of Structure 2b is reacted with p-nitrobenzenesulfonyl chloride in a solvent such as DCM, THF or another suitable organic solvent, in the presence of a base, such as DIEA, with or without a catalytic amount of N,N-dimethyl-aminopyridine, to afford the desired sulfonamide of Structure 3a. In a second step, in order to afford a sulfonamide of Structure 3b, the sulfonamide of Structure 3a is easily alkylated with the respective commercially available or well known alkylating agent R⁵-L, with K₂CO₃ or any other suitable base, in an organic solvent, such as toluene, preferably in the presence of a phase transfer agent, such as tetrabutylammonium bromide in accordance to a procedure described in the literature (C. Peña et al., Tetrahedron Lett. 2005, 46, 2783-2787). Specifically, a methyl group is

introduced by reaction of a sulfonamide of Structure 3a either with methyl iodide or with diazomethane dissolved in diethylether.

Subsequently, the sulfonamide of Structure 3b is treated in a typical procedure according to S.C. Miller and coworker (*J. Am. Chem. Soc.* 1997, 119, 2301-2302) with a thiol, such as thiophenol, or thioacetic acid, in the presence of a base, such as DBU or the like, in a suitable organic solvent, such as DMF, to remove the sulfonamido group, furnishing an intermediate of Structure 2a.

$$\begin{array}{c|c}
R^{5} & O & O \\
N-S & O & O \\
N-S & O & O \\
\hline
R^{2} & O & O \\
\hline
R^{3} & O & O \\
\hline
R^{4} & O & O \\
\hline
OR & OR
\end{array}$$

Structure

3a, wherein R⁵ represents H

3b, wherein $R^5 \neq H$

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An intermediate of Structure 2b is obtained after removal of the protective group (PG) from an intermediate of Structure 2c, applying reaction conditions known to a skilled person. Preferably, the PG is a group such as *tert*-butoxycarbonyl, benzyloxycarbonyl, or allyloxycarbonyl, most preferably *tert*-butoxycarbonyl.

An intermediate of Structure 2c is generated by reacting an intermediate of Structure 4 with a compound of Formula L-CH₂CO₂R wherein R and L are as defined before, in the presence of a base, such as cesium carbonate, sodium hydride, potassium *tert*-butanolate or the like, in a suitable solvent, such as acetone, MeCN, THF or dioxane. Suitable L is a leaving group such as halo, in particular bromo or chloro; mesyloxy or tosyloxy. Preferably, the compound of Formula L-CH₂CO₂R is ethyl bromoacetate.

Structure

An intermediate of Structure 4, with PG as described hereinabove, is obtained in a Fischer-type indole synthesis according to the literature (J. D. Ha et al., Bulletin of the Korean Soc. Chem. 2004, 25, 1784-1790): reaction of a commercially available or well known hydrazine of Structure 5 (either as a free base or as a salt) and a cyclohexanone of Structure 6, which is commercially available or whose synthesis is as described in the above mentioned literature, furnishes the desired intermediate of Structure 4 as a racemate.

$$R^2$$
 R^3
 R^4
 R^4

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In another aspect, an intermediate of Structure 4 is obtained through protection of the amino group in a tetrahydrocarbazol-3-ylamine of Structure 7 with a hereinabove described PG applying methods known to a skilled person.

$$R^2$$
 R^3
 R^4
 R^4
 R^4
 R^4
 R^4
 R^4

Both, the (R)- and the (S)-enantiomer of starting tetrahydrocarbazol-3-ylamine of Structure 7 are obtained in a stereospecific reaction following a procedure described in literature (Rosentreter U. et al., Arzneim.-Forsch. 1989, 39(12), 1519-1521; and EP 0242518).

A synthesis of racemic ethyl (3RS)-(3-amino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate hydrochloride is described in the literature (Ulven, T.; Kostenis, E. J. Med. Chem. 2005, 48, 897-900).

5 A stereoselective synthesis of methyl (3R)-(3-tert-butoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate is described in WO 03/097598.

$$R^{2}$$
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{0}
 $C_{1.4}$
 $C_{1.4$

Structure

8a, wherein R' represents H and R represents C₁₋₄-alkyl 8b, wherein R' and R independently represent C₁₋₄-alkyl

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In a particular case, a compound of Structure 1, wherein R⁶ represents "R⁷-C₁₋₄-alkylcarbonyl, wherein the bridging C₁₋₄-alkyl group may additionally be mono-substituted with aryl, and R⁷ represents arylaminocarbonyl, heteroarylaminocarbonyl, C₁₋₆-alkylaminocarbonyl, or aryl-C₁₋₃-alkylaminocarbonyl", is obtained by reaction of the respective compound of Structure 8a with the respective amine, in the presence of a coupling reagent, such as DCC, diisopropylcarbodiimide, HATU or the like, in the presence Et₃N, DIEA, or the like, in a solvent such as DCM or DMF.

A compound of Structure 8a wherein the bridging C_{1-4} -alkyl group may additionally be mono-substituted with aryl is obtained by treating a respective compound of Structure 8b, wherein R' represents C_{1-4} -alkyl, preferentially *tert*-butyl, as a protecting group, with reaction with TFA in DCM or hydrochloric acid in an organic solvent, such as dioxane, diethylether, AcOEt, or the like, at room temperature.

Structure

9, wherein R' represents C₁₋₄-alkyl

A compound of Structure 8b, is obtained by reacting a compound of Structure 2a or 2b with the corresponding compound of Structure 9, wherein the bridging C_{1-4} -alkyl group may additionally be mono-substituted with aryl, which are commercially available or synthesized according to well known methods such as enolate alkylation (see for example: J. Org. Chem. 1986, 51(6), 938-940), in the presence of a coupling reagent, such as DCC, diisopropylcarbodiimide, HATU, or the like, in the presence of a base such as Et_3N , DIEA, or the like, in a solvent such as DCM or DMF.

Whenever the compounds of Formula I are obtained in the form of mixtures of enantiomers, the enantiomers can be separated using methods known to the one skilled in the art: e.g. by formation and separation of diastereomeric salts or by HPLC over a chiral stationary phase such as a Regis Whelk-O1(R,R) (10 µm) column, a Daicel ChiralCel OD-H (5-10 µm) column, or a Daicel ChiralPak IA (10 µm) or AD-H (5 µm) column. Typical conditions of chiral HPLC are an isocratic mixture of eluent A (EtOH, in presence or absence of an amine such as Et₃N, diethylamine) and eluent B (hexane), at a flow rate of 0.8 to 150 mL/min.

Experimental section:

Abbreviations (as used herein):

AcOEt Ethyl acetate

AcOH Acetic acid

5 aq. aqueous
Bdg Binding

BSA Bovine Serum Albumin

CC Column chromatography on silica gel

DBU 1,8-Diazabicyclo[5.4.0]undec-7-ene

10 DCC 1,3-Dicyclohexylcarbodiimide

DCM Dichloromethane

DIEA N,N-Diisopropylethylamine

DMAP *N,N*-Dimethyl-4-aminopyridine

DME Dimethoxyethane

15 DMF Dimethylformamide

DMSO Dimethylsulfoxide

EDTA Ethylene Diamine Tetraacetic Acid

ESI-MS Electrospray Ionization Mass Spectroscopy

Et₃N Triethylamine

20 FC Flash chromatography on silica gel

h hour(s)

HATU O-(7-Aza-1*H*-benzotriazole-1-yl)-1,1,3,3-tetramethyluronium

hexafluorophosphate

HPLC High Performance Liquid Chromatography

25 l liter(s)

LC-MS Liquid Chromatography – Mass Spectroscopy

Me Methyl

MeCN Acetonitrile

MeI Methyl iodide

30 MeOH Methanol

mesyl Methanesulfonyl

Meth. Method

min minute(s)

MS			Mass Spectroscopy
MW	· ·		Molecular Weight
N		•	Normality of solution

NaBH(OAc)₃ Sodium triacetoxyborohydride

5 NMP N-Methylpyrrolidinone

org. organic

PBS Phosphate Buffered Saline

PG Protecting Group
PGD₂ Prostaglandin D₂

10 PMSF Phenylmethylsulfonyl fluoride

rt room temperature

s second(s)

sat. saturated

subst. substituted

15 TFA Trifluoroacetic acid

THF Tetrahydrofuran

tlc thin layer chromatography

tosyl Toluenesulfonyl

t_R retention time

20 Tris Tris-(hydroxymethyl)aminomethane buffer

Chemistry

General remarks

All solvents and reagents are used as obtained from commercial sources unless otherwise

25 indicated.

Temperatures are indicated in degrees Celsius (°C). Unless otherwise indicated, the reactions take place at room temperature (rt).

In mixtures, relations of parts of solvent or eluent or reagent mixtures in liquid form are given as volume relations (v/v), unless indicated otherwise.

30 Analytical HPLC conditions as used in the Examples below:

HPLC/MS analyses are performed on a Waters 2795 Alliance HPLC instrument, equipped with a Waters 996 Photodiode Array Detector and a Micromass ZQTM Waters mass spectrometer (electron spray ionization), detection at 200-400 nm (LC-1 and LC-2), or on a Agilent 1100 system, equipped with a Dionex P580 binary pump, a Dionex PDA-100 Photodiode Array Detector and a Finnigan AQA mass spectrometer (LC-3).

The LC retention times are obtained using the following elution conditions:

- LC-1: Analytical HPLC on a XterraTM MS C18 column (4.6x50 mm, 5 μm, Waters); Linear gradient of water/ 0.06% formic acid (A) and MeCN/ 0.06% formic acid (B) from 5% to 95% B over 1 min; flow rate 3 ml/min, detection at 215 nm.

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- LC-2: Analytical HPLC on a Zorbax® SB-AQ column (4.6x50 mm, 5µm, Agilent); Linear gradient of water/ 0.06% formic acid (A) and MeCN/ 0.06% formic acid (B) from 5% to 95% B over 1 min; flow rate 3 ml/min, detection at 215 nm.
- LC-3: Analytical HPLC on a Zorbax[®] SB-AQ column (4.6x50 mm, 5μm, Agilent); Linear gradient of water/ 0.05% TFA (A) and MeCN (B) from 5% to 95% B over 1 min; flow rate 4.5 ml/min, detection at 215 nm.

Preparative HPLC/MS purifications are performed on a Waters HPLC system, equipped with a Waters 600 controller, a Waters 2767 sample manager, a Waters 996 Photodiode Array Detector, and a Micromass ZQTM Waters mass spectrometer (electron spray ionization), detection at 200-400 nm, using a Zorbax® PrepHT SB.Aq (5 μm, 21.2x50 mm) or a Phenomenex® Gemini column (10 μm, 21.2x50 mm), with a linear gradient of water/ 0.02% formic acid (A) and MeCN/ 0.02% formic acid (B) over 5 min; flow rate 4 ml/min, detection at 215 nm.

¹H NMR spectra are recorded either on a Varian Mercury 300VX FT-NMR spectrometer or on a Bruker Advance II 400 spectometer. Chemical shifts (δ) are reported in parts per million (ppm) relative to proton resonances resulting from incomplete deuteration of the NMR solvent, e.g. for dimetylsulfoxide δ (H) 2.49 ppm, for chloroform δ (H) 7.24 ppm, and the abbreviations s, d, t, q, m and br refer to singlet, doublet, triplet, quartet, multiplet, and broad, respectively.

Synthesis of Compounds of Formula I:

The following examples illustrate the preparation of pharmacologically active compounds of the invention but do not at all limit the scope thereof. First the synthesis of Example compounds is described, followed by the description of the synthesis of intermediates and starting materials. Whenever used in the experimental part, generic Structures 1 to 9 refer to the Structures described in preceeding general description of the preparation of compounds of Formula I.

General method for saponification of intermediates of Structure 1:

Aq. 1N LiOH or 1N NaOH (1 ml, 1 mmol) is added to a stirred solution of the appropriate compound of Structure 1 (0.105 mmol) in THF (1 ml) and the resulting biphasic mixture is continued to stir overnight. DCM (2 ml) and AcOH (1 ml), or 2N HCl, are added to the reaction mixture. The aq. layer, obtained after phase separation, is extracted three times with DCM (1 ml). The combined org. phases are washed with brine and dried over Na₂SO₄ and the solvent is evaporated. Purification is performed by CC with a 1:1 mixture of AcOEt/heptane containing 1% AcOH, or by preparative HPLC to give the desired compound of Formula I in 6 to 98% yield.

Listed in Table 1 below are examples of compounds of Formula I, prepared according to the above-mentioned method with the corresponding compound of Structure 1 as starting material.

Table 1

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Example	Compound of Formula I	Formula	t _R [min] MS
•		MW	LC-MS Data
		~	Method m/z
			[M+H] ⁺
. 1	(3R)-[3-(3-Butyl-ureido)-1,2,3,4-tetrahydro-	C19H25N3O3	1.01 344.08
	9H-carbazol-9-yl]-acetic acid	343.426	LC-1
· 2	(3R)-[3-(3-Benzyl-ureido)-1,2,3,4-tetrahydro-	C22H23N3O3	1.15 378.04
	9H -carbazol-9-yl]-acetic acid	377.443	LC-1
3	(3R)-[3-(3-Phenethyl-ureido)-1,2,3,4-	C23H25N3O3	1.32 392.05
	tetrahydro-9H-carbazol-9-yl]-acetic acid	391.47	LC-1

			•	
4	(3R)-[3-(3-Naphthalen-1-yl-ureido)-1,2,3,4-	C25H23N3O3	1.7	413.97
	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	413.476	LC-1	
5]	(3R)-[3-(3-Phenylsulfonyl-ureido)-1,2,3,4-	C21H21N3O5S	1.13	[M+Na]⁺
	tetrahydro-9H-carbazol-9-yl]-acetic acid	427.48	LC-1	449.90
6	(3R)-(3-tert-Butoxycarbonylamino-1,2,3,4-	C19H24N2O4	1.05	[M+Na] ⁺
•	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	344.10	LC-1	367.07
7	(3R)-(3-Propoxycarbonylamino-1,2,3,4-	C18H22N2O4	1.35	331.03
: •	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	330.383	LC-1	
8	(3R)-(3-Isobutoxycarbonylamino-1,2,3,4-	C19H24N2O4	1.69	345.03
.3	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	344.41	LC-1	 ميد
9 .	(3R)-(3-Benzyloxycarbonylamino-1,2,3,4-	C22H22N2O4	1.82	[M+Na] [†]
. ;	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	378.427	LC-1	400.96
10	(3R)-[3-(2-Benzyloxy-ethoxycarbonylamino)-	C24H26N2O5	1.77	[M+Na]⁺
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	422.479	LC-1	444.94
	acid			
11	(3R)-(3-Benzoylamino-1,2,3,4-tetrahydro-9H-	C21H20N2O3	1.00	349.00
	carbazol-9-yl)-acetic acid	348.401	LC-2	
12	(3R)-[3-(2-Phenoxy-acetylamino)-1,2,3,4-	C22H22N2O4	1.43	379.04
	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	378.427	LC-1	
13	(3R)-(3-Phenylacetylamino-1,2,3,4-	C22H22N2O3	1.21	363.02
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	362.428	LC-1	
14	(3R)-[3-(2-Thiophen-2-yl-acetylamino)-	C20H20N2O3S	1.11	368.96
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	368.456	LC-1	• • • •
	acid			•
15	(3R)-[3-(3-Phenyl-propionylamino)-1,2,3,4-	C23H24N2O3	1.36	377.04
•	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	376.455	LC-1	
16	(3R)-[3-(2-Benzyloxy-acetylamino)-1,2,3,4-	C23H24N2O4	1.44	392.98
٠	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	392.454	·LC-1	
17	(3R)-[3-(3-Methyl-butyrylamino)-1,2,3,4-	C19H24N2O3	0.97	329.08
	tetrahydro-9H-carbazol-9-yl]-acetic acid	328.411	LC-1	
18	(3R)-[3-(3-Cyclopentyl-propionylamino)-	C22H28N2O3	1.77	369.07
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	368.475	LC-1	
	acid		• *	

•	•			· ·
19	(3R)-(3-Decanoylamino-1,2,3,4-tetrahydro-	C24H34N2O3	2.77	399.10
	9H-carbazol-9-yl)-acetic acid	398.545	LC-1	
20	(3S)-[3-(3-Butyl-ureido)-1,2,3,4-tetrahydro-	C19H25N3O3	0.98	344.18
	9H-carbazol-9-yl]-acetic acid	343.426	LC-2	
. 21	(3S)-[3-(3-Benzyl-ureido)-1,2,3,4-tetrahydro-	C22H23N3O3	0.99	378.18
	9H-carbazol-9-yl]-acetic acid	377.443	LC-2	
22	(3S)-[3-(3-Phenethyl-ureido)-1,2,3,4-	C23H25N3O3	1.01	392.17
٠.	tetrahydro-9H-carbazol-9-yl]-acetic acid	391.47	LC-2	
23	(3S)-[3-(3-Phenylsulfonyl-ureido)-1,2,3,4-	C21H21N3O5S	0.99	428.05
	tetrahydro-9H-carbazol-9-yl]-acetic acid	427.48	LC-2	
24	(3S)-[3-(3-Phenyl-ureido)-1,2,3,4-tetrahydro-	C21H21N3O3	1.00	364.13
*	9 <i>H</i> -carbazol-9-yl]-acetic acid	363.416	LC-2	*
25	(3S)-(3-Propoxycarbonylamino-1,2,3,4-	C18H22N2O4	1.01	331.17
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	330.383	LC-2	
26	(3S)-(3-Isobutoxycarbonylamino-1,2,3,4-	C19H24N2O4	1.04	345.15
•	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	344.41	LC-2	
27	(3S)-(3-Benzyloxycarbonylamino-1,2,3,4-	C22H22N2O4	1.06	379.15
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	378.427	LC-2	•
28	(3S)-[3-(2-Benzyloxy-ethoxycarbonylamino)-	C24H26N2O5	1.06	423.20
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	422.479	LC-2	
	acid			
29	(3S)-[3-(2-Phenoxy-acetylamino)-1,2,3,4-	C22H22N2O4	1.02	379.08
	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	378.427	LC-2	
30	(3S)-(3-Phenylacetylamino-1,2,3,4-	C22H22N2O3	1.00	363.16
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	362.428	LC-2	
31	(3S)-[3-(2-Thiophen-2-yl-acetylamino)-	C20H20N2O3S	0.99	369.11
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	368.456	LC-2	
	acid			077.00
32	(3S)-[3-(3-Phenyl-propionylamino)-1,2,3,4-	C23H24N2O3	1.02	377.08
	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	376.455	LC-2	000 44
33	(3S)-[3-(2-Benzyloxy-acetylamino)-1,2,3,4-	C23H24N2O4	1.03	393.14
	tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	392.454	LC-2	000 : 0
34	(3S)-[3-(3-Methyl-butyrylamino)-1,2,3,4-	C19H24N2O3	0.97	329.16
	tetrahydro-9 <i>H-</i> carbazol-9-yl}-acetic acid	328.411	LC-2	

35	(3S)-[3-(3-Cyclopentyl-propionylamino)-	C22H28N2O3	1.01	369.18
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	368.475	LC-2	
36	(3S)-(3-Decanoylamino-1,2,3,4-tetrahydro-	C24H34N2O3	1.16	398.82
	9H-carbazol-9-yl)-acetic acid	398.545	LC-2	
37.	(3S)-(3-Butyrylamino-1,2,3,4-tetrahydro-9H-	C18H22N2O3	0.94	315.18
	carbazol-9-yl)-acetic acid	314.384	LC-2	
38	(3S)-(3-Heptanoylamino-1,2,3,4-tetrahydro-	C21H28N2O3	1.06	357.20
	9H-carbazol-9-yl)-acetic acid	356.464	LC-2	
39	(3R)-[6-Fluoro-3-(2-phenoxy-acetylamino)-	C22H21N2O4F	1.04	397.16
•	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	396.417	LC-2	
	acid			
40	(3R)-(6-Fluoro-3-phenylacetylamino-1,2,3,4-	C22H21N2O3F		381.16
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	380.418	LC-2	
41	(3R)-[6-Fluoro-3-(3-phenyl-propionylamino)-	C23H23N2O3F	1.03	395.22
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	394.445	LC-2	
	acid		•	
42	(3R)-{3-[2-(4-Chloro-phenyl)-acetylamino]-6-	C22H20N2O3CIF	1.05	415.16
	fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	414.863	LC-2	
	acetic acid	*		:
43	(3R)-{6-Fluoro-3-[2-(4-methoxy-phenyl)-	C23H23N2O4F	1.01	411.22
•	acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-	410.444	LC-2	
44	9-yl}-acetic acid	0001100110005	. 4 04	005.00
44	(3R)-[6-Fluoro-3-(2-p-tolyl-acetylamino)-	C23H23N2O3F 394.445	1.04	395.22
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	394.445	LC-2	
45	(3R)-{3-[2-(3,4-Dichloro-phenyl)-	C22H19N2O3Cl2F	1.09	447.16
75	acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -	449.308	LC-2	447.10
•	carbazol-9-yl}-acetic acid	440.000		
46	(3R)-{3-[2-(3-Chloro-phenyl)-acetylamino]-6-	C22H20N2O3CIF	1.06	415.16
	fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	414.863	LC-2	
	acetic acid			
47	(3R)-{6-Fluoro-3-[2-(4-trifluoromethyl-phenyl)-	C23H20N2O3F4	1.08	449.17
	acetylamino]-1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-	448.415	LC-2	
	9-yl}-acetic acid	(T		

•			•	• '
48	(3R)-{3-[2-(4-Chloro-phenoxy)-acetylamino]-	C22H20N2O4CIF	1.08	431.16
• •	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	430.862	LC-2	
<u>.</u>	acetic acid			
49	(3R)-[6-Fluoro-3-(2-p-tolyloxy-acetylamino)-	C23H23N2O4F	1.08	411.22
. •	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	410.444	LC-2	
	acid			
-50	(3R)-{3-[2-(2-Chloro-phenoxy)-acetylamino]-	C22H20N2O4CIF	1.07	431.16
٠,	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	430.862	LC-2	
•	acetic acid			•
51	(3R)-{3-[2-(3-Chloro-phenoxy)-acetylamino]-	C22H20N2O4CIF	1.08	431.16
·· -	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	430.862	LC-2	
	acetic acid		•	
52	(3R)-{6-Fluoro-3-[3-(4-methoxy-phenyl)-	C24H25N2O4F	1.03	425.28
	propionylamino]-1,2,3,4-tetrahydro-9H-	424.471	LC-2	*
	carbazol-9-yl}-acetic acid			
53	(3R)-[6-Fluoro-3-(3-p-tolyl-propionylamino)-	C24H25N2O3F	1.06	409.21
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	408.472	LC-2	. 0
	acid			
54	(3R)-{3-[3-(4-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	
	acetic acid			
55 ·	(3R)-{3-[3-(2-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	
	acetic acid	; ·		
56	(3R)-{3-[3-(3-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	
	acetic acid			
57	(3S)-{3-[2-(4-Chloro-phenyl)-acetylamino]-6-	C22H20N2O3CIF	1.05	415.23
	fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	414.863	LC-2	
	acetic acid			
58 .	(3S)-{6-Fluoro-3-[2-(4-methoxy-phenyl)-	C23H23N2O4F	1.01	411.22
. •	acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-	410.444	LC-2	
	9-yl}-acetic acid	•		- F
59	(3S)-[6-Fluoro-3-(2-p-tolyl-acetylamino)-	C23H23N2O3F	1.01	395.15
	1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl]-acetic	394.445	LC-2	
	acid			
	·			

60	(3S)-[6-Fluoro-3-(2-phenoxy-acetylamino)-	C22H21N2O4F	1.04	397.23
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	396.417	LC-2	
	acid		•	
61	(3S)-[6-Fluoro-3-(3-phenyl-propionylamino)-	C23H23N2O3F	1.03	395.22
:	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	394.445	LC-2	
· · ·	acid			• •
62	(3S)-{3-[2-(4-Chloro-phenoxy)-acetylamino]-	C22H20N2O4CIF	1.08	431.16
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	430.862	LC-2	
	acetic acid			
63	(3S)-[6-Fluoro-3-(2-p-tolyloxy-acetylamino)-	C23H23N2O4F	1.07	411.22
٠.	1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl]-acetic	410.444	LC-2	
	acid			
64	(3S)-{6-Fluoro-3-[3-(4-methoxy-phenyl)-	C24H25N2O4F	1.03	425.21
	propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -	424.471	LC-2	,
	carbazol-9-yl}-acetic acid			
65	(3S)-[6-Fluoro-3-(3-p-tolyl-propionylamino)-	C24H25N2O3F	1.06	409.21
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	408.472	LC-2	
	acid		· . ·	· · · · · · · · · · · · · · · · · · ·
66	(3S)-{3-[3-(4-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	
·,	acetic acid			•
67	(3S)-{3-[3-(2-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	
٠.	acetic acid			
68	(3S)-{3-[3-(3-Chloro-phenyl)-propionylamino]-	C23H22N2O3CIF	1.07	429.15
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	428.89	LC-2	· ·.
• .	acetic acid		. 0	÷
69	(3S)-{3-[3-(3,4-Difluoro-phenyl)-	C23H21N2O3F3	1.05	431.26
	propionylamino]-6-fluoro-1,2,3,4-tetrahydro-	430.425	LC-2	•
•	9H-carbazol-9-yl}-acetic acid	-	: :	••
70	(3S)-{6-Fluoro-3, [3-(3-methoxy-phenyl)-	C24H25N2O4F	1.03	425.21
	propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -	424.471	LC-2	. , .
	carbazol-9-yl}-acetic acid			
71	(3S)-{6-Fluoro-3-[3-(2-methoxy-phenyl)-	C24H25N2O4F	1.04	425.21
	propionylamino]-1,2,3,4-tetrahydro-9H-	424.471	LC-2	
•	carbazol-9-yl}-acetic acid			· . · · · · · · · · · · · · · · · · · ·
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72	(3S)-[3-(2,3-Diphenyl-propionylamino)-6-	C29H27N2O3F	1.12	471.27
	fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-	470.542	LC-2	
· :	acetic acid			
73	(3S)-[3-(3,3-Diphenyl-propionylamino)-6-	C29H27N2O3F	1.1	471.20
	fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-	470.542	LC-2	
	acetic acid			
.74	(3S)-{3-[4-(4-Bromo-phenyl)-4-oxo-	C24H22N2O4BrF	1.07	503.06
	butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-	501.351	LC-2	
	carbazol-9-yl}-acetic acid			
75	(3S)-[6-Fluoro-3-(4-oxo-4-phenyl-	C24H23N2O4F	1.02	423.20
	butyrylamino)-1,2,3,4-tetrahydro-9H-	· 422.455	LC-2	
	carbazol-9-yl]-acetic acid		•	*
76	(3S)-[6-Fluoro-3-[4-(4-methanesulfonyl-	C25H25N2O6FS	0.97	501.19
	phenyl)-4-oxo-butyrylamino]-1,2,3,4-	500.545	LC-2	
	tetrahydro-9H-carbazol-9-yl}-acetic acid			
77	(3S)-[6-Fluoro-3-(2-indan-2-yl-acetylamino)-	C25H25N2O3F	1.07	421.19
٠,	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic	420.483	LC-2	
	acid		•	
78 .	(3S)-{6-Fluoro-3-[3-(4-hydroxy-3-methoxy-	C24H25N2O5F	0.98	441.00
•	phenyl)-propionylamino]-1,2,3,4-tetrahydro-	440.47	LC-2	
	9H-carbazol-9-yl}-acetic acid			
79 ·	(3S)-{6-Fluoro-3-[3-(4-hydroxy-phenyl)-	C23H23N2O4F	0.97	411.02
	propionylamino]-1,2,3,4-tetrahydro-9H-	410.444	LC-2	
	carbazol-9-yl}-acetic acid			
80	(3S)-{6-Fluoro-3-[3-(3-hydroxy-phenyl)-	C23H23N2O4F	0.99	411.02
	propionylamino]-1,2,3,4-tetrahydro-9H-	410.444	LC-2	
	carbazol-9-yl}-acetic acid			
81	(3S)-{6-Fluoro-3-[3-(2-hydroxy-phenyl)-	C23H23N2O4F	1.02	411.02
	propionylamino]-1,2,3,4-tetrahydro-9H-	410.444	LC-2	
•	carbazol-9-yl}-acetic acid			*
82	(3S)-{3-[(2,3-Dihydro-1 <i>H</i> -indole-2-carbonyl)-	C23H22N3O3F	1.04	408.04
. ()	amino]-6-fluoro-1,2,3,4-tetrahydro-9H-	407.444	LC-2	
	carbazol-9-yl}-acetic acid			
83	(3S)-[6-Fluoro-3-(3-1 <i>H</i> -indol-3-yl-	C25H24N3O3F	1.04	434.07
	propionylamino)-1,2,3,4-tetrahydro-9H-	433.482	LC-2	
	carbazol-9-yl]-acetic acid			

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84	(3S)-[3-(3-1H-Benzoimidazol-2-yl-	C24H23N4O3F	0.79	435.04
	propionylamino)-6-fluoro-1,2,3,4-tetrahydro-	434.47	LC-2	
	9H-carbazol-9-yl]-acetic acid		•	
85	(3S)-[3-(3-Benzo[1,3]dioxol-5-yl-	C24H23N2O5F	1.04	438.99
	propionylamino)-6-fluoro-1,2,3,4-tetrahydro-	438.454	LC-2	
	9H-carbazol-9-yl]-acetic acid			- ×
86	(3S)-{6-Fluoro-3-[(1H-indole-2-carbonyl)-	C23H20N3O3F	1.07	406.03
	amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-	405.428	LC-2	
•	acetic acid			
87	(3S)-[6-Fluoro-3-(3-pyridin-3-yl-	C22H22N3O3F	0.7	396.11
· · ·	propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -	395.433	LC-3	
	carbazol-9-yl]-acetic acid			
88	(3S)-{3-[2-(4-tert-Butyl-phenyl)-acetylamino]-	C26H29N2O3F	1.02	437.17
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	436.525	LC-3	
	acetic acid	* .		
89	(3S)-{6-Fluoro-3-[2-(4-trifluoromethyl-phenyl)-	C23H20N2O3F4	0.98	449.14
	acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-	448.415	LC-3	
•	9-yl}-acetic acid	· · · · · · · · · · · · · · · · · · ·	•	
90	(3S)-{6-Fluoro-3-[2-(3-trifluoromethyl-phenyl)-	C23H20N2O3F4	0.98	449.09
	acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-	448.415	LC-3	
٠.	9-yl}-acetic acid			
91	(3S)-{6-Fluoro-3-[2-(4-trifluoromethyl-	C23H20N2O4F4	1.00	465.15
	phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-	464.414	LC-3	•
	carbazol-9-yl}-acetic acid		·	
92	(3S)-[6-Fluoro-3-(3-naphthalen-2-yl-	C27H23N2O3F	1.01	443.07
	acryloylamino)-1,2,3,4-tetrahydro-9H-	442.489	LC-3	
	carbazol-9-yl]-acetic acid	* .	. ()	· .
93	(3S)-[6-Fluoro-3-(3-naphthalen-2-yl-	C27H25N2O3F	0.99	445.15
. •	propionylamino)-1,2,3,4-tetrahydro-9H-	444.505	LC-3	
	carbazol-9-yl]-acetic acid			•••
94	(3S)-{6-Fluoro-3 ₋ [methyl-(3-phenyl-	C24H25N2O3F	0.98	409.16
	propionyl)-amino 1,2,3,4-tetrahydro-9H-	408.472	LC-3	
	carbazol-9-yl}-acetic acid			·
95	(3S)-(3-{[2-(4-Chloro-phenyl)-acetyl]-methyl-	C23H22N2O3CIF	0.99	429.10
	amino}-6-fluoro-1,2,3,4-tetrahydro-9H-	428.89	LC-3	•
	carbazol-9-yl)-acetic acid	. 4		
	•			•

96	(3S)-(6-Fluoro-3-[ethyl-(3-phenyl-propionyl)-	C25H27N2O3F	0.99	423.10
	amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	422.498	LC-3	
97	(3S)-(3-{[2-(4-Chloro-phenyl)-acetyl]-ethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -	C24H24N2O3CIF 442.917	1.01 LC-3	443.06
98	carbazol-9-yl)-acetic acid (3S)-{6-Fluoro-3-[propyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	C26H29N2O3F 436.525	1.02 LC-3	43720
99	(3S)-(3-{[2-(4-Chloro-phenyl)-acetyl]-propyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	C25H26N2O3CIF 456.943	1.03 LC-3	457.21
100	(3RS)-(3-Benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	C22H21N2O4F 396.410	0.98 LC-3	397.11
101	(3RS)-(3-Benzyloxycarbonylamino-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	C22H20N2O4CIF 430.862	1.01 LC-3	431.05
102	(3RS)-(3-Benzyloxycarbonylamino-8-chloro-5-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	C22H20N2O4CIF 430.862	1.01 LC-3	431.04

Listed in Table 1a below are further compounds of Formula I, prepared according to the abovementioned general method with the corresponding compound of Structure 1 as starting material.

5 Table 1a

Example	Compound of Formula I	Formula MW	t _R [min] LCMS	MS Data m/z
•			Method	[M+H] ⁺
103	(3RS)-[3-(3-Benzyl-ureido)-6-fluoro-	C22H22N3O3F	0.92	396.17
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	395.433	LC-3	
104	(3S)-[6-Fluoro-3-(3-phenethyl-	C23H24N3O3F	0.92	410.52
	ureido)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	409.46	LC-3	••

•			. •
105	(3RS)-[3-(3-Benzyl-ureido)-8-chloro- C22H21N3O3CIF	0.95	430.07
	6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - 429.878	LC-3	•
	carbazol-9-yl]-acetic acid		• • •
106	(3RS)-[8-Chloro-6-fluoro-3-(3- C23H23N3O3CIF	0.97	444.07
2	phenethyl-ureido)-1,2,3,4-tetrahydro- 443.905	LC-3	
	9H-carbazol-9-yl]-acetic acid	•	• •
107	(3RS)-(3-Benzyloxycarbonylamino-6- C23H21N2O4F3	1.02	447.25
	trifluoromethyl-1,2,3,4-tetrahydro-9H- 446.424	LC-3	
	carbazol-9-yl)-acetic acid		· · · · ·
108	(3RS)-(3-Benzyloxycarbonylamino-8- C22H20N2O4BrF	1.02	474.98
٠.	bromo-6-fluoro-1,2,3,4-tetrahydro- 475.313	LC-3	
. •	9H-carbazol-9-yl)-acetic acid		• :
109	(3RS)-(3-Benzyloxycarbonylamino-6- C24H23N2O4F	1.01	423.15
	fluoro-8-vinyl-1,2,3,4-tetrahydro-9 <i>H</i> - 422.455	LC-3	
	carbazol-9-yl)-acetic acid	• • •	
110	(3RS)-(3-Benzyloxycarbonylamino-6- C23H23N2O6FS	0.95	475.15
	fluoro-8-methanesulfonyl-1,2,3,4- 474.508	LC-3	
	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic		
	acid	· ·	
111	(3S)-(3-Benzyloxycarbonylamino-6- C23H23N2O4F	0.99	411.14
	fluoro-8-methyl-1,2,3,4-tetrahydro- 410.444	LC-3	
	9H-carbazol-9-yl)-acetic acid		
112	(3S)-(3-Benzyloxycarbonylamino-7- C22H20N2O4CIF	1.01	431.16
٠.	chloro-6-fluoro-1,2,3,4-tetrahydro- 430.862	LC-3	
	9H-carbazol-9-yl)-acetic acid		
113	(3S)-(8-Allyl-3- C25H25N2O4F	1.02	437.1
· .	benzyloxycarbonylamino-6-fluoro- 436.482	LC-3	* * *
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-		
	acetic acid		
114	(3R)-(3-Benzyloxycarbonylamino-8- C22H21N2O4Cl	• 1	413.03
	chloro-1,2,3,4-tetrahydro-9 <i>H</i> - 412.872	LC-3	
	carbazol-9-yl)-acetic acid		
115	(3S)-{3-[3-(2,4-Dimethoxy-phenyl)- C25H27N2O5F	0.95	455.11
	propionylamino]-6-fluoro-1,2,3,4- 454.496	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic		
	acid	•	• • •

			•	•
116	(3S)-[6-Fluoro-3-(3-naphthalen-1-yl-	C27H25N2O3F	0.99	445.14
	propionylamino)-1,2,3,4-tetrahydro-	444.505	LC-3	
	9H-carbazol-9-yl]-acetic acid		. *	
117	(3RS)-{6-Fluoro-3-[2-(2-methoxy-	C23H23N2O5F	0.94	427.16
	phenoxy)-acetylamino]-1,2,3,4-	426.443	LC-3	
•	tetrahydro-9H-carbazol-9-yl}-acetic		• •	
	acid			
118	(3RS)-{6-Fluoro-3-[3-(2-	C24H25N2O3F	0.97	409.08
	methylphenyl)-propionylamino]-	408.472	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		8	
.:	acetic acid		₹~	: :
119	(3 <i>RS</i>)-{6-Fluoro-3-[3-(3-	C24H25N2O3F	0.97	409.11
•	methylphenyl)-propionylamino]-	408.472	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		•	
	acetic acid			
120	(3RS)-{6-Fluoro-3-[3-(3-methoxy-	C24H25N2O4F	0.94	425.1
	phenyl)-propionylamino]-1,2,3,4-	424.471	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			
121	(3RS)-{6-Fluoro-3-[2-(3-methoxy-	C23H23N2O5F	0.95	427.12
	phenoxy)-acetylamino]-1,2,3,4-	426.443	LC-3	
٠	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			
122	(3RS)-{6-Fluoro-3-[2-(2-	C23H23N2O4F	0.98	411
	methylphenoxy)-acetylamino]-	410.444	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid	•	•	·
123	(3S)-{3-[3-(2,5-Dimethoxy-phenyl)-	C25H27N2O5F	0.94	455.19
	propionylamino]-6-fluoro-1,2,3,4-	454.496	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic	•		
	acid	·		
124	(3S)-{6-Fluoro-3-[3-(4-trifluoromethyl-	C24H22N2O3F4	0.99	463.15
	phenyl)-propionylamino]-1,2,3,4-	462.442	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			• •

125	(3S)-{3-[3-(2,6-Dichloro-phenyl)-	C23H21N2O3Cl2F	0.99	463.07
	propionylamino]-6-fluoro-1,2,3,4-	463.335	LC-3	*
	tetrahydro-9H-carbazol-9-yl}-acetic		•	• • • • •
	acid			
126	(3S)-{3-[3-(2,5-Bis-trifluoromethyl-	C25H21N2O3F7	1.04	530.97
	phenyl)-propionylamino]-6-fluoro-	530.439	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		•	
	acetic acid			· .
127	(3S)-{6-Fluoro-3-[3-(4-	C24H25N2O3FS	0.97	441.1
	methylsulfanyl-phenyl)-	440.538	LC-3	
	propionylamino]-1,2,3,4-tetrahydro-	₽	* .	
	9H-carbazol-9-yl}-acetic acid			
128	(3S)-{6-Fluoro-3-[3-(4-iodo-phenyl)-	C23H22N2O3FI	0.99	521.03
	propionylamino]-1,2,3,4-tetrahydro-	520.337	LC-3	
· .	9H-carbazol-9-yl}-acetic acid			
129	(3S)-{6-Fluoro-3-[3-(4-isopropyl-	C26H29N2O3F	1.01	437.17
	phenyl)-propionylamino]-1,2,3,4-	436.525	LC-3	
*	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid		•	
130	(3S)-{6-Fluoro-3-[3-(3-trifluoromethyl-	- C24H22N2O3F4	0.99	463.13
٠.	phenyl)-propionylamino]-1,2,3,4-	462.442	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			:
	acid		•	
131	(3S)-{3-[3-(2,4-Dichloro-phenyl)-	C23H21N2O3Cl2F	1.01	463.08
	propionylamino]-6-fluoro-1,2,3,4-	463.335	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic		٠.	
	acid			
132	(3S)-{6-Fluoro-3-[3-(4-fluoro-phenyl)-	C23H22N2O3F2	0.95	413.08
	propionylamino]-1,2,3,4-tetrahydro-	412.435	LC-3	•
	9H-carbazol-9-yl}-acetic acid			
133	(3S)-{3-[3-(3,5-Bis-trifluoromethyl-	C25H21N2O3F7	1.03	530.99
	phenyl)-propionylamino]-6-fluoro-	530.439	LC-3	
	1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl}-			•
	acetic acid		•	
134	(3S)-{3-[3-(4-Ethyl-phenyl)-	C25H27N2O3F	0.99	423.12
•	propionylamino]-6-fluoro-1,2,3,4-	422.498	LC-3	

				=
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic		٠	
	acid			
135	(3S)-{6-Fluoro-3-[3-(3-iodo-phenyl)-	C23H22N2O3FI	0.97	521.41
	propionylamino]-1,2,3,4-tetrahydro-	520.337	LC-3	
	9H-carbazol-9-yl}-acetic acid	1	* .	:
136	(3S)-{6-Fluoro-3-[3-(4-	C24H25N2O5FS	0.87	473.12
. •	methanesulfonyl-phenyl)-	472.536	LC-3	•
•	propionylamino]-1,2,3,4-tetrahydro-			
	9H-carbazol-9-yl}-acetic acid			
137	(3S)-{3-[3-(2,3-Dimethoxy-phenyl)-	C25H27N2O5F	0.94	455.16
:	propionylamino]-6-ft@oro-1,2,3,4-	454.496	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			*
	acid		:	
138	(3S)-{3-[3-(2-Bromo-phenyl)-	C23H22N2O3BrF	0.98	474.97
	propionylamino]-6-fluoro-1,2,3,4-	473.341	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			
139	(3S)-{6-Fluoro-3-[3-(3-	C24H22N2O4F4	1	479.11
	trifluoromethoxy-phenyl)-	478.441	LC-3	
	propionylamino]-1,2,3,4-tetrahydro-		· .	
	9H-carbazol-9-yl}-acetic acid			
140	(3S)-{3-[3-(2,4-Dimethyl-phenyl)-	C25H27N2O3F	0.99	423.14
	propionylamino]-6-fluoro-1,2,3,4-	422.498	LC-3	٠
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic			
	acid	,	: '	• •
141	(3S)-{3-[3-(3-Bromo-phenyl)-	C23H22N2O3BrF	0.98	474.93
141	propionylamino]-6-fluoro-1,2,3,4-	473.341	LC-3	17,41.00
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic	470.041	LOĢ	
	acid			
142		C28H32N3O5F	0.98	510.17
142	(3S)-{3-[3-(3-tert-	509.576	U.90 LC-3	310.17
	Butoxycarbonylamino-phenyl)-	509.576	LU-3	
	propionylamino]-6-fluoro-1,2,3,4-			
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic			
	acid	000110011000	4.55	400.5
143	(3S)-{6-Fluoro-3-[(S)-3-(4-fluoro-	C29H26N2O3F2	1.02	489.15
	phenyl)-2-phenyl-propionylamino]-	488.532	LC-3	

•	·			•
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid		. •	
144	(3S)-{6-Fluoro-3-[(S)-3-(4-methoxy-	C30H29N2O4F	1.01	501.16
	phenyl)-2-phenyl-propionylamino]-	500.568	LC-3	
•	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid			
145	(3S)-{6-Fluoro-3-[3-(2-fluoro-phenyl)-	C23H22N2O3F2	0.95	413.09
٠.	propionylamino]-1,2,3,4-tetrahydro-	412.435	LC-3	•
	9H-carbazol-9-yl}-acetic acid			
146	(3S)-(6-Fluoro-3-{[(2RS)-1,2,3,4-	C25H25N2O3F	0.98	421.11
	tetrahydro-naphthalene-2-carbonyl]-	420.483	LC-3	· *
	amino}-1,2,3,4-tetrahydro-9H-			•
	carbazol-9-yl)-acetic acid	·		
147	(3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-	C26H27N2O4F	0.98	451.08
	1,2,3,4-tetrahydro-naphthalene-2-	450.508	LC-3	
	carbonyl]-amino}-1,2,3,4-tetrahydro-		,	
	9H-carbazol-9-yl)-acetic acid			
148	(3S)-(6-Fluoro-3-{(2RS)-2-[(4-fluoro-	C31H29N3O4F2	0.98	546.06
٠.	phenylcarbamoyl)-methyl]-3-phenyl-	545.584	LC-3	
	propionylamino}-1,2,3,4-tetrahydro-			
	9H-carbazol-9-yl)-acetic acid			•
149	(3S)-{3-[(2RS)-2-Benzyl-3,3-	C27H31N2O3F	1.02	451.12
	dimethyl-butyrylamino]-6-fluoro-	450.552	LC-3	• • • •
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		: •	
)	acetic acid			
150	(3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-	C24H23N2O4F	0.95	423.11
	1,2,3,4-tetrahydro-naphthalene-2-	422.455	LC-3	
	carbonyl]-amino}-1,2,3,4-tetrahydro-			
	9H-carbazol-9-yl)-acetic acid			•
151	(3S)-{6-Fluoro-3-[3-(3-fluoro-phenyl)-	C23H22N2O3F2	0.94	413.08
	propionylamino]-1,2,3,4-tetrahydro-	412.435	LC-3	•••
•	9H-carbazol-9-yl}-acetic acid	•	• .	
152	(3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-	C24H23N2O3F	0.96	407.1
	1,2,3,4-tetrahydro-naphthalene-2-	406.456	LC-3	
	carbonyl]-amino}-1,2,3,4-tetrahydro-			
	9H-carbazol-9-yl)-acetic acid			

			•	•
153	(3S)-{6-Fluoro-3-[(2R)-2-methyl-3-	C24H25N2O3F	0.95	409.11
	phenyl-propionylamino]-1,2,3,4-	408.472	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			٠.
	acid	•		
154	(3S)-[3-(2,2-Dimethyl-3-phenyl-	C25H27N2O3F	0.99	423.19
	propionylamino)-6-fluoro-1,2,3,4-	422.498	LC-3	•
	tetrahydro-9H-carbazol-9-yl]-acetic	·		• • •
	acid	*		
155	(3S)-[6-Fluoro-3-(3-methyl-3-phenyl-	C25H27N2O3F	1	423.2
	butyrylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -	422.498	LC-3	
	carbazol-9-yl]-acetic acid		'1	
156	(3S)-{6-Fluoro-3-[(3S)-3-phenyl-	C24H25N2O3F	0.95	409.2
	butyrylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -	408.472	LC-3	
	carbazol-9-yl}-acetic acid			
157	(3S)-[3-(2-Benzyloxy-acetylamino)-6-	C23H23N2O4F	0.94	411.06
,0,	fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -	410.444	LC-3	111.00
	carbazol-9-yl]-acetic acid	110.111		
158	(3S)-[6-Fluoro-3-(4-phenyl-	C24H25N2O3F	0.96	409.16
150	butyrylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -	408.472	LC-3	403.10
	carbazol-9-yl]-acetic acid	400.472	LO-0 .	
159	(3S)-{3-[(2R,3R)-2,3-Dihydroxy-3-(2-	C25H26N3O7F	0.86	500.19
	methoxy-phenylcarbamoyl)-	499.493	LC-3	500.19
	propionylamino]-6-fluoro-1,2,3,4-	499.490	LO-0 .	
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic			
	acid		•	· ·
160		COALIOANIOCOCIE	4	443.11
100	(3RS)-{8-Chloro-6-fluoro-3-[3-(2-	C24H24N2O3CIF 442.917	LC-3	443.11
	methylphenyl)-propionylamino]-	442.917	LU-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid			•
404		000110011005015	0.00	404.40
161	(3RS)-{8-Chloro-6-fluoro-3-[2-(2-	C23H22N2O5CIF	0.98	461.18
	methoxy-phenoxy)-acetylamino]-	460.888	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid			
162	(3RS)-{8-Chloro-6-fluoro-3-[3-(3-	C23H22N2O4CIF	0.88	445.32
	hydroxy-phenyl)-propionylamino]-	444.889	LC-3	
•	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			

acetic acid

163	(3RS)-{8-Chloro-6-fluoro-3-[3-(3-	C24H24N2O4CIF	0.98	459.04
	methoxy-phenyl)-propionylamino]-	458.916	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			:- :
	acetic acid		• •	
164	(3RS)-{8-Chloro-6-fluoro-3-[3-(3-	C24H24N2O3CIF	1.01	443.01
• •	methylphenyl)-propionylamino]-	442.917	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid			
165	(3RS)-{8-Chloro-6-fluoro-3-[3-(2-	C23H22N2O4CIF	0.92	486.38
	hydroxy-phenyl)-propionylamino]-	444.889	LC-3	
•	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	,		
	acetic acid		• •	
166	(3RS)-[8-Chloro-6-fluoro-3-(3-phenyl-	- C23H22N2O3CIF	0.98	429.13
	propionylamino)-1,2,3,4-tetrahydro-	428.89	LC-3	
	9H-carbazol-9-yl]-acetic acid		: .	
167	(3RS)-{8-Chloro-6-fluoro-3-[3-(2-	C24H24N2O4CIF	0.99	459.03
	methoxy-phenyl)-propionylamino]-	458.916	LC-3	
•	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		٠.	
	acetic acid			· . ·
168	(3RS)-{8-Chloro-3-[3-(3-chloro-	C23H21N2O3Cl2F	1.01	463.11
	phenyl)-propionylamino]-6-fluoro-	463.335	LC-3	•
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		; ·	
	acetic acid			
169	(3RS)-[8-Chloro-6-fluoro-3-(3-1H-	C25H23N3O3CIF	0.97	468.11
-	indol-3-yl-propionylamino)-1,2,3,4-	467.927	LC-3	
	tetrahydro-9H-carbazol-9-yl]-acetic			
	acid		· .·	
170	(3RS)-{8-Chloro-3-[2-(2-chloro-	C22H19N2O4Cl2F	1.01	465.09
	phenoxy)-acetylamino]-6-fluoro-	465.307	LC-3	
···	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid		• .	
171	(3RS)-{8-Chloro-6-fluoro-3-[2-(2-	C23H22N2O4CIF	1.02	445.11
٠	methylphenyl)-oxy-acetylamino]-	444.889	LC-3	•
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			

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172	(3RS)-[3-(3-Benzo[1,3]dioxol-5-yl-	C24H22N2O5CIF	0.93	473.17
	propionylamino)-8-chloro-6-fiuoro-	472.899	LC-3	
:	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-		• •	
	acetic acid			
173	(3RS)-{8-Chloro-6-fluoro-3-[2-(3-	C23H22N2O5CIF	0.99	461.09
	methoxy-phenoxy)-acetylamino]-	460.888	LC-3	•
• • •	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid			
174	(3RS)-{8-Chloro-3-[2-(3-chloro-	C22H19N2O4Cl2F	1.02	465
	phenoxy)-acetylamino]-6-fluoro-	465.307	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
	acetic acid			
175	(3RS)-{8-Chloro-3-[3-(2-chloro-	C23H21N2O3Cl2F	1.01	463.07
٠.	phenyl)-propionylamino]-6-fluoro-	463.335	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		19.4 · · · · · · · · · · · · · · · · · · ·	
	acetic acid			
176	(3RS)-[8-Chloro-6-fluoro-3-(2-indan-	C25H24N2O3CIF	1.01	455.16
=	2-yl-acetylamino)-1,2,3,4-tetrahydro-	454.928	LC-3	
	9H-carbazol-9-yl]-acetic acid			
177	(3S)-[6-Fluoro-3-(1-methyl-3-	C24H26N3O3F	0.98	429.13
	phenethyl-ureido)-1,2,3,4-tetrahydro-	423.486	LC-3	
	9H-carbazol-9-yl]-acetic acid			
178	(3S)-{3-[3-(2-Chloro-benzyl)-1-	C23H23N3O3CIF	0.97	444.16
•	methyl-ureido]-6-fluoro-1,2,3,4-	443.905	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic	· .		
	acid			(1)
. 179	(3S)-[3-(3-Benzyl-1-methyl-ureido)-6-	C23H24N3O3F	0.94	410.12
	fluoro-1,2,3,4-tetrahydro-9H-	409.46	LC-3	
	carbazol-9-yl]-acetic acid			•
180	(3S)-[3-(Benzyloxycarbonyl-methyl-	C23H23N2O4F	1.01	411.07
	amino)-6-fluoro-1,2,3,4-tetrahydro-	410.444	LC-3	
	9H-carbazol-9-yl]-acetic acid			
181	{(3S)-3-[(2-Chloro-	C23H22N2O4CIF	1.03	445.15
	benzyloxycarbonyl)-methyl-amino]-6-	444.889	LC-3	

			* .	
	fluoro-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl}-acetic acid			
182	(3S)-(6-Fluoro-3-{[2-(4-methoxy-	C24H25N2O4F	0.95	425.19
	phenyl)-acetyl]-methyl-amino}-	424.471	LC-3	
:	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			
	acetic acid	. '		· ·
. 183	(3S)-(6-Fluoro-3-{methyl-[2-(4-	C24H25N2O3F	0.98	409.18
	methylphenyl)-acetyl]-amino}-	408.472	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			
	acetic acid			· :
184	(3S)-(6-Fluoro-3-{[2-(2-methoxy-	C24H25N2O4F	0:96	425.18
	phenyl)-acetyl]-methyl-amino}-	424.471	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			··*.
	acetic acid			
185	(3S)-{6-Fluoro-3-[(2-indan-2-yl-	C26H27N2O3F	1.01	435.16
	acetyl)-methyl-amino]-1,2,3,4-	434.509	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
•	acid	•		
186	(3S)-(3-{[2-(3-Chloro-phenyl)-acetyl]-	C23H22N2O3CIF	0.99	429.13
	methyl-amino)-6-fluoro-1,2,3,4-	428.89	LC-3	÷
·.	tetrahydro-9H-carbazol-9-yl)-acetic			
•	acid		· .	
187	(3S)-(6-Fluoro-3-{methyl-[2-(3-	C24H25N2O3F	0.98	409.1
	methylphenyl)-acetyl]-amino}-	408.472	LC-3	
٠.	1,2,3,4-tetrahydro-9H-carbazol-9-yl)-			
•	acetic acid		: :	: *
188	(3S)-(6-Fluoro-3-{[2-(3-methoxy-	C24H25N2O4F	0.95	425.08
	phenyl)-acetyl]-methyl-amino}-	424.471	LC-3	
	1,2,3,4-tetrahydro-9H-carbazol-9-yl)-			
	acetic acid			
189	(3S)-(3-{[2-(2-Chloro-phenoxy)-	C23H22N2O4CIF	0.97	445.38
	acetyl]-methyl-amino}-6-fluoro-	444.889	LC-3	
	1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl)-	,	•	•
	acetic acid			
190	(3S)-(3-{[2-(4-Chloro-phenoxy)-	C23H22N2O4CIF	0.98	445.39
	acetyl]-methyl-amino}-6-fluoro-	444.889	LC-3	•

	•			
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-		•	
•	acetic acid			. • •
191	(3S)-(6-Fluoro-3-{[3-(3-methoxy-	C25H27N2O4F	0.96	439.47
	phenyl)-propionyl]-methyl-amino}-	438.497	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-	••		
•	acetic acid		•	•
192	(3S)-(6-Fluoro-3-{methyl-[2-(2-	C24H25N2O3F	0.96	409.48
٠.	methylphenyl)-acetyl]-amino}-	408.472	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			
	acetic acid			
193	(3S)-{3-[(3,3-Diphenyl-propionyl)-	C60H29N2O3F	1.02	485.52
	methyl-amino]-6-fluoro-1,2,3,4-	484.569	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			
194	(3S)-(6-Fluoro-3-{[3-(2-methoxy-	C25H27N2O4F	0.97	439.45
	phenyl)-propionyl]-methyl-amino}-	438.497	LC-3	·
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			
	acetic acid			
195	(3S)-{6-Fluoro-3-[(3-1H-indol-3-yl-	C26H26N3O3F	0.94	448.44
	propionyl)-methyl-amino]-1,2,3,4-	447.508	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid		•	
196	(3S)-{3-[(2-Benzyloxy-acetyl)-methyl-	C24H25N2O4F	0.94	425.44
	amino]-6-fluoro-1,2,3,4-tetrahydro-	424.471	LC-3	
	9H-carbazol-9-yl}-acetic acid		:	
197	(3S)-{3-[(2,3-Diphenyl-propionyl)-	C30H29N2O3F	1.04	485.53
	methyl-amino]-6-fluoro-1,2,3,4-	484.569	LC-3	
•	tetrahydro-9H-carbazol-9-yl}-acetic			
-	acid	*		
198	(3S)-{6-Fluoro-3-[[3-(2-methoxy-	C33H35N2O4F	1.07	543.18
	phenyl)-propionyl]-(3-phenyl-propyl)-	542.649	. LC-3	
	amino]-1,2,3,4-tetrahydro-9 <i>H</i> -			
	carbazol-9-yl}-acetic acid			
199	(3S)-{3-[Acetyl-(3-phenyl-propyl)-	C25H27N2O3F	1.01	423.14
	amino]-6-fluoro-1,2,3,4-tetrahydro-	422.498	LC-3	•
	9H-carbazol-9-yl}-acetic acid			
	•			

cyclopropylmethyl)-ureido]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 201 (3S)-[3-(Benzyloxycarbonyl- cyclopropylmethyl-amino)-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3S)-[3-[Cyclopropylmethyl-(3- phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 203 (3S)-[3-[Cyclopropylmethyl-((S)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3S)-(3-[Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino)- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-(3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 207 (3S)-(3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 207 (3S)-(3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-[Benzyloxycarbonyl-[2-(4- C31H28N2O5F4	• .	•
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 201 (3S)-[3-(Benzyloxycarbonyl- cyclopropylmethyl-amino)-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3S)-{3-[Cyclopropylmethyl-(3- phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl- amino)-6-fluoro-1,2,3,4-tetrahydro-	0.99	450.2
acetic acid 201 (3S)-[3-(Benzyloxycarbonyl- cyclopropylmethyl-amino)-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3S)-[3-[Cyclopropylmethyl-(3- phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 203 (3S)-[3-[Cyclopropylmethyl-((S)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino]- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-(3-{Cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-adetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- amino}-6-fluoro-1,2,3,4-tetrahydro-	LC-3	
201 (3S)-[3-(Benzyloxycarbonyl- cyclopropylmethyl-amino)-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3S)-[3-[Cyclopropylmethyl-(3- phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 203 (3S)-[3-[Cyclopropylmethyl-((S)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3S)-(3-[Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-[[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-[3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-[3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-acetic acid 208 (3S)-(3-[Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- amino}-6-fluoro-1,2,3,4-tetrahydro-		
cyclopropylmethyl-amino)-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3- phenyl-propionyl]-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 203 (3 <i>S</i>)-{3-[Cyclopropylmethyl-((<i>S</i>)-2- methyl-3-phenyl-propionyl]-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-acetic acid 204 (3 <i>S</i>)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino]- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-acetic acid 205 (3 <i>S</i>)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-acetic acid 206 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl]-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 207 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-adetic acid 208 (3 <i>S</i>)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- amino}-6-fluoro-1,2,3,4-tetrahydro-		
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetic acid 202 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3- phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 203 (3 <i>S</i>)-{3-[Cyclopropylmethyl-((<i>S</i>)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3 <i>S</i>)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3 <i>S</i>)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl]-adetic acid 208 (3 <i>S</i>)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- amino}-6-fluoro-1,2,3,4-tetrahydro-	1.05	451.15
acetic acid 202 (3S)-{3-[Cyclopropylmethyl-(3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid 206 (3S)-(3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-acetic acid 207 (3S)-(3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid 208 (3S)-(3-[Benzyloxycarbonyl-[2-(4-carbazol-9-yl]-acetic acid 208 (3S)-(3-[Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl]-acetic acid	LC-3	
202 (3S)-{3-[Cyclopropylmethyl-(3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl}-amino]-6-fluoro-1,2,3,4-tetrahydro-9½-carbazol-9-yl}-acetic acid		
phenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}- acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2- C28H31N2O3F methyl-3-phenyl-propionyl)-amino]-6- 462.563 fluoro-1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- C28H31N2O4F methoxy-phenyl)-propionyl]-amino}- 478.562 6-fluoro-1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- C26H26N2O4CIF acetyl]-cyclopropylmethyl-amino}-6- 484.953 fluoro-1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- C33H33N2O3F diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- C30H29N2O3F naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9\(\frac{1}{2}\)-carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}-amino]-6-fluoro-1,2,3,4-tetrahydro-		
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2- methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	1.02	149.25
acetic acid 203 (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid 206 (3S)-(3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 207 (3S)-(3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	LC-3	•
203 (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl]-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 204 (3S)-{3-[Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 205 (3S)-{3-[[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-{3-[Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-setioro-1,2,3,4-tetrahydro-1,2,3,4-tetrah	•	
methyl-3-phenyl-propionyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- amino}-6-fluoro-1,2,3,4-tetrahydro-		
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2- methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-(3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- amino}-6-fluoro-1,2,3,4-tetrahydro-	1.03	463.27
carbazol-9-yl}-acetic acid 204 (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid 206 (3S)-{3-{Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 207 (3S)-{3-{Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl}-584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-1,2,3,4-tetrahydro-1,2,3,4-tetrahydro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	LC-3	
204 (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-{3-[Cyclopropylmethyl-(2-c30H29N2O3Fdluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4-c31H28N2O5F4deddeddeddeddeddeddeddeddeddeddeddedded		
methoxy-phenyl)-propionyl]-amino}- 6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3 <i>S</i>)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3 <i>S</i>)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl]- 584.564		
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564	1.02	479.28
carbazol-9-yl)-acetic acid 205 (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-524.634 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl}-584.564	LC-3	
205 (3S)-(3-{[2-(3-Chloro-phenoxy)- acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-		
acetyl]-cyclopropylmethyl-amino}-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-		
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl)-acetic acid 206 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(3,3- diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3 <i>S</i>)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3 <i>S</i>)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564	1.03	485.2
carbazol-9-yl)-acetic acid 206 (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-	LC-3	
diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-		•
diphenyl-propionyl)-amino]-6-fluoro- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- C30H29N2O3F naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-tetrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}- amino}-6-fluoro-1,2,3,4-tetrahydro-		, v .
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}- acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- C30H29N2O3F naphthalen-1-yl-acetyl)-amino]-6- 484.569 fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	1.07	525.26
acetic acid 207 (3S)-{3-[Cyclopropylmethyl-(2- C30H29N2O3F naphthalen-1-yl-acetyl)-amino]-6- 484.569 fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	LC-3	
207 (3S)-{3-[Cyclopropylmethyl-(2- C30H29N2O3F naphthalen-1-yl-acetyl)-amino]-6- 484.569 fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	•	
naphthalen-1-yl-acetyl)-amino]-6- fluoro-1,2,3,4-teṭrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- trifluoromethyl-phenoxy)-ethyl}- amino}-6-fluoro-1,2,3,4-tetrahydro-		···
fluoro-1,2,3,4-teṭrahydro-9 <i>H</i> - carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}- amino}-6-fluoro-1,2,3,4-tetrahydro-		485.26
carbazol-9-yl}-acetic acid 208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl}- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-	LC-3	
208 (3S)-(3-{Benzyloxycarbonyl-[2-(4- C31H28N2O5F4 trifluoromethyl-phenoxy)-ethyl]- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-		
trifluoromethyl-phenoxy)-ethyl]- 584.564 amino}-6-fluoro-1,2,3,4-tetrahydro-		
amino}-6-fluoro-1,2,3,4-tetrahydro-		585.14
	LC-3	•
0H-carbazol-0-vl\-acetic acid		
911-Carbazor-9-yr/-aceric aciu		• •

		٠ .		
209	(3S)-(3-{Acetyl-[2-(4-trifluoromethyl-	C25H24N2O4F4	1.07	493.17
•	phenoxy)-ethyl]-amino}-6-fluoro-	492.468	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-		•	
	acetic acid			
210	(3S)-(6-Fluoro-3-{propionyl-[2-(4-	C26H26N2O4F4	1.08	507.18
•	trifluoromethyl-phenoxy)-ethyl]-	506.494	LC-3	
	amino}-1,2,3,4-tetrahydro-9H-			
•	carbazol-9-yl)-acetic acid			
211	(3S)-(6-Fluoro-3-{(3-phenyl-	C32H30N2O4F4	1.13	583.14
	propionyl)-[2-(4-trifluoromethyl-	582.592	LC-3	
	phenoxy)-ethyl]-amino}-1,2,3,4-			
*	tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic			•
•	acid		: .	•
212	(3S)-(6-Fluoro-3-{[3-(2-methoxy-	C33H32N2O5F4	1.13	613.26
	phenyl)-propionyl]-[2-(4-	612.618	LC-3	
	trifluoromethyl-phenoxy)-ethyl]-		٠	
	amino}-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl)-acetic acid			· .
213	(3S)-{6-Fluoro-3-[(2-phenoxy-ethyl)-	C31H31N2O4F	1.06	515.17
	(3-phenyl-propionyl)-amino]-1,2,3,4-	514.595	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic			
	acid			
214	(3S)-{6-Fluoro-3-[((S)-2-methyl-3-	C32H33N2O4F	1.07	529.26
	phenyl-propionyl)-(2-phenoxy-ethyl)-	528.622	LC-3	
٠	amino]-1,2,3,4-tetrahydro-9H-			•
• •	carbazol-9-yl}-acetic acid		٠	
215	(3S)-{6-Fluoro-3-[[3-(2-methoxy-	C32H33N2O5F	1.06	545.25
	phenyl)-propionyl]-(2-phenoxy-ethyl)-	544.621	LC-3	
	amino]-1,2,3,4-tetrahydro-9H-			•
	carbazol-9-yl}-acetic acid			
216	(3S)-{3-[Acetyl-(2-phenoxy-ethyl)-	C24H25N2O4F	0.98	425.19
· .	amino]-6-fluoro-1,2,3,4-tetrahydro-	424.471	LC-3	
	9H-carbazol-9-yl}-acetic acid			. *
217	(3S)-{3-[3-Benzyl-1-(2-methoxy-	C25H28N3O4F	0.97	454.26
٠	ethyl)-ureido]-6-fluoro-1,2,3,4-	453.512	LC-3	٠.
	tetrahydro-9 <i>H-</i> carbazol-9-yl}-acetic	*		-00

acid

				. • •
218	(3S)-{3-[Benzyloxycarbonyl-(2-	C25H27N2O5F	0.97	454.26
	methoxy-ethyl)-amino]-6-fluoro-	454.496	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-			
•	acetic acid			
219	(3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-	C26H29N2O4F	0.98	453.25
	(3-phenyl-propionyl)-amino]-1,2,3,4-	452.524	LC-3	
	tetrahydro-9H-carbazol-9-yl}-acetic	`		
	acid		9	•
220	(3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-	C27H31N2G4F	1	467.18
•	((S)-2-methyl-3-phenyl-propionyl)-	466.551	LC-3	•
	amino]-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl}-acetic acid		•	
221	(3S)-(6-Fluoro-3-{(2-methoxy-ethyl)-	C27H31N2O5F	0.98	483.19
	[3-(2-methoxy-phenyl)-propionyl]-	482.55	LC-3	
	amino}-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl)-acetic acid			
222	(3S)-{3-[[2-(3-Chloro-phenoxy)-	C25H26N2O5CIF	1	489.17
	acetyl]-(2-methoxy-ethyl)-amino]-6-	488.941	LC-3	
	fluoro-1,2,3,4-tetrahydro-9H-		· · ·	
٠.	carbazol-9-yl}-acetic acid		·	
223	(3S)-{3-[(3,3-Diphenyl-propionyl)-(2-	C32H33N2O4F	1.04	529.28
	methoxy-ethyl)-amino]-6-fluoro-	528.622	LC-3	
	1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl}-	-• 		
,	acetic acid	•	• .	
224	(3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-	C29H29N2O4F	1.01	489.24
	(2-naphthalen-1-yl-acetyl)-amino]-	488.557	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-		· .•	
	acetic acid			
225	(3S)-(6-Fluoro-3-{[(2S)-2-methyl-3-	C32H33N2O3F	1.07	513.27
	phenyl-propionyl]-phenethyl-amino}-	512.623	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-		•	•
	acetic acid			
226	(3S)-(6-Fluoro-3-{{3-(2-methoxy-	C32H33N2O4F	1.06	529.27
	phenyl)-propionyl]-phenethyl-amino}-	528.622	LC-3	
	•			

-	•	•		_
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-			
•	acetic acid			
227	(3S)-[3-(Acetyl-phenethyl-amino)-6-	C24H25N2O3F	0.98	409.16
	fluoro-1,2,3,4-tetrahydro-9H-	408.472	LC-3	
	carbazol-9-yl]-acetic acid			
228	(3S)-{6-Fluoro-3-[(2-naphthalen-1-yl-	C34H31N2O3F	1.08	535.27
•	acetyl)-phenethyl-amino]-1,2,3,4-	534.629	LC-3	
•	tetrahydro-9H-carbazol-9-yl}-acetic	*		
	acid			
229	(3S)-{6-Fluoro-3-[phenethyl-(3-	C31H31N2O3F	1.06	499.2
	phenyl-propionyl)-amino]-1,2,3,4-	498.596	LC-3	· .
	tetrahydro-9H-carbazol-9-yl}-acetic	*		•
	acid		:	* * .
230	(3S)-[3-(3-Benzyl-1-naphthalen-1-	C33H30N3O3F	1.05	536.25
•	ylmethyl-ureido)-6-fluoro-1,2,3,4-	535.617	LC-3	
	tetrahydro-9H-carbazol-9-yl]-acetic			-
	acid			
231	(3S)-[3-(Benzyloxycarbonyl-	C33H29N2O4F	1.09	537.24
	naphthalen-1-ylmethyl-amino)-6-	536.601	LC-3	
·	fluoro-1,2,3,4-tetrahydro-9H-		•	
	carbazol-9-yl]-acetic acid			
232	(3S)-{6-Fluoro-3-[naphthalen-1-	C34H31N2O3F	1.07	535.25
	ylmethyl-(3-phenyl-propionyl)-	534.629	LC-3	
	amino]-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl}-acetic acid			
233	(3S)-{6-Fluoro-3-[((S)-2-methyl-3-	C35H33N2O3F	1.09	549.26
	phenyl-propionyl)-naphthalen-1-	548.656	LC-3	•
	ylmethyl-amino]-1,2,3,4-tetrahydro-			
	9H-carbazol-9-yl}-acetic acid		· .•	
234	(3S)-(6-Fluoro-3-{[3-(2-methoxy-	C35H33N2O4F	1.07	565.26
	phenyl)-propionyl]-naphthalen-1-	564.655	LC-3	•
	ylmethyl-amino}-1,2,3,4-tetrahydro-		• 0	•
	9H-carbazol-9-yl)-acetic acid		• .	
235	(3S)-{3-[(3,3-Diphenyl-propionyl)-	C40H35N2O3F	1.11	611.21
	naphthalen-1-ylmethyl-amino]-6-	610.727	LC-3	• .
	fluoro-1,2,3,4-tetrahydro-9H-			

carbazol-9-yl}-acetic acid

• • •	•			. • •
236	(3S)-[3-(Acetyl-naphthalen-1-	C27H25N2O3F	1	445.24
	ylmethyl-amino)-6-fluoro-1,2,3,4-	444.505	LC-3	
	tetrahydro-9H-carbazol-9-yl]-acetic			
	acid			*
237	(3S)-[6-Fluoro-3-(naphthalen-1-	C28H27N2O3F	1.01	459.15
• •	ylmethyl-propionyl-amino)-1,2,3,4-	458.531	LC-3	
	tetrahydro-9H-carbazol-9-yl]-acetic			
	acid			
238	(3S)-{3-[(RS)-2-Benzyl-3-(2-	C32H32N3O4F	0.97>	542.22
	methylphenyl)-carbamoyl-	541.621	LC-3	
	propionylamino]-6-fluoro-1,2,3,4-	*		
•	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic	•()		
	acid			
239	(3S)-{3-[(RS)-2-Benzyl-3-(3-	C32H32N3O5F	0.97	558.24
	methoxy-phenylcarbamoyl)-	557.620	LC-3	
·	propionylamino]-6-fluoro-1,2,3,4-			
	tetrahydro-9H-carbazol-9-yl}-acetic			•
	acid		· ·.	
240	(3S)-{3-[(RS)-2-Benzyl-3-(4-chloro-	C31H29N3O4CIF	1.01	562.09
	phenylcarbamoyl)-propionylamino]-6-	562.039	LC-3	
	fluoro-1,2,3,4-tetrahydro-9H-			
	carbazol-9-yl}-acetic acid			
241	(3S)-{3-[(RS)-2-Benzyl-3-(4-fluoro-	C32H31N3O4F2	0.96	560.21
	benzylcarbamoyl)-propionylamino]-6-	559.611	LC-3	
	fluoro-1,2,3,4-tetrahydro-9H-	·		
	carbazol-9-yl}-acetic acid			
242	[(3 <i>S</i>)-3-((<i>RS</i>)-2-Benzyl-3-	C28H32N3O4F	0.91	494.25
•	propylcarbamoyl-propionylamino)-6-	493.577	LC-3	
	fluoro-1,2,3,4-tetrahydro-9H-			
·. ·	carbazol-9-yl]-acetic acid	· .	٠,	
243	(3S)-[6-Fluoro-3-(3-thiophen-2-yl-	C21H21FN2O3S	0.93	400.61
	propionylamino)-1,2,3,4-tetrahydro-	400.47	LC-3	
	9H-carbazol-9-yl]-acetic acid			٠.

244	(3S)-{3-[3-(3-Chloro-isoxazol-5-yl)-	C20H19CIFN3O4	0.91	420.09
	propionylamino]-6-fluoro-1,2,3,4-	419.83	LC-3	· · ·
	tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic	•		
.·	acid	*	•	•
245	(3S)-[6-Fluoro-3-(3-pyrimidin-2-yl-	C21H21FN4O3	0.8	397.11
	propionylamino)-1,2,3,4-tetrahydro-	396.41	LC-3	
	9H-carbazol-9-yl]-acetic acid			
246	(3 <i>S</i>)-{6-Fluoro-3-[3-phenyl-4-	C27H26FN5O4S	0.87	536.14
	([1,3,4]thiadiazol-2-ylcarbamoyl)-	535.59	LC-3	
	butyrylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -			· · ·
	carbazol-9-yl}-acetic acid			•
247	(3S)-[3-(1,3-Dibenzyl-ureido)-6-	C29H28FN3O3	1.02	486.22
	fluoro-1,2,3,4-tetrahydro-9H-	485.55	LC.3	
	carbazol-9-yl]-acetic acid	·		*
248	(3S)-(3-{Acetyl-[2-(2-fluoro-phenyl)-	C24H24F2N2O3	0.99	427.07
*	ethyl]-amino}-6-fluoro-1,2,3,4-	426.46	LC-3	
	tetrahydro-9H-carbazol-9-yl)-acetic	*		
	acid		•	
249	(3S)-(3-{Acetyl-[2-(3-fluoro-phenyl)-	C24H24F2N2O3	0.99	427.07
	ethyl]-amino}-6-fluoro-1,2,3,4-	426.46	LC-3	
	tetrahydro-9H-carbazol-9-yl)-acetic			
	acid			
250	(3 <i>S</i>)-[3-(3-Benzyl-1-	C29H34N3O3F	1.06	492.26
	cyclohexylmethyl-ureido)-6-fluoro-	491.605	LC-3	
	1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-		•	
	acetic acid	•		
251	(3S)-(3-{Cyclohexylmethyl-[3-(2-	C31H37N2O4F	1.10	521.25
	methoxy-phenyl)-propionyl]-amino}-	520.643	LC-3	-
. :	6-fluoro-1,2,3,4-tetrahydro-9H-		· .·	
	carbazol-9-yl)-acetic acid			

Synthesis of Precursors and Intermediates:

General Methods for the synthesis of intermediates of Structure 1:

$$R^{2}$$
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{6}
 R^{6}
 R^{6}

Structure 1, wherein R represents C₁₋₄-alkyl

1) N-Carbamoylation of an intermediate of Structure 2a or 2b:

The appropriate isocyanate (0.132 mmol) and a catalytical amount of DMAP are added to a 0°C cold solution of a hydrochloride of the appropriate intermediate of Structure 2a or 2b (0.11 mmol) and Et₃N (0.034 ml, 0.242 mmol) in DCM (2 ml). The reaction mixture is stirred at rt overnight. Then, a 1:4 mixture (1 ml) of sat. NaHCO₃ solution and H₂O is added. After phase separation, the aq. layer is extracted three times with DCM. The combined org. phases are washed with 10% citric acid. The solvent is evaporated and the pure [3-ureido-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetate derivative of Structure 1 is obtained by preparative HPLC with 8 to 98% yield.

15.

Listed in Table 2 below are ethyl [3-ureido-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetate derivatives of Structure 1, prepared according to the above mentioned method, with the corresponding compound of Structure 2a or 2b as starting material.

Table 2

Interm	ediates of Structure 1:	Formula	t _R [min]	MS Data
Ethyl	[3-ureido-1,2,3,4-tetrahydro-9 <i>H</i> -	MW	LC-MS	m/z
carbaz	ol-9-yl]-acetate derivatives		Method	[M+H]*
Ethyl	(3R)-[3-(3-butyl-ureido)-1,2,3,4-	C21H29N3O3	1.1	372.05
tetrahy	dro-9 <i>H</i> -carbazol-9-yl]-acetate	371.47	LC-2	372.03
Ethyl	(3R)-[3-(3-benzyl-ureido)-1,2,3,4-	C24H27N3O3	1.99	406.06
tetrahy	dro-9H-carbazol-9-yl]-acetate	405.496	LC-1	400.00
Ethyl	(3R)-[3-(3-phenethyl-ureido)-	C25H29N3O3	2.15	420.04
1,2,3,4	-tetrahydro-9 <i>H-</i> carbazol-9-yl]-	419.523	LC-1	420.04

acetate

Ethyl (3 <i>R</i>)-[3-(3-naphthalen-1-yl-ureido)- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetate C27H27N30 441.52	O3 1.19 LC-2	441.95
Ethyl (3 <i>R</i>)-[3-(3-phenylsulfonyl-ureido)- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetate C23H25N3C	95S 1.96 LC-1	454.1
Ethyl (3S)-[3-(3-butyl-ureido)-1,2,3,4- C21H29N30 tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 371.479	D3 1.08 LC-2	372.16
Ethyl (3S)-[3-(3-benzyl-ureido)-1,2,3,4- C24H27N30 tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 405.496	D3 1.1 LC-2	406.16
Ethyl (3S)-[3-(3-phenethyl-ureido)-1,2,3,4- C25H29N30 tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 419.523	D3 1.12 LC-2	420.15
Ethyl (3S)-[3-(3-phenylsulfonyl-ureido)- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]- acetate C23H25N3C	05S 1.09 LC-2	454.16
Ethyl (3S)-[3-(3-phenyl-ureido)-1,2,3,4- C23H25N30 tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 391.47	D3 1.11 LC-2	392.17

Listed in Table 2a below are further ethyl [3-ureido-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetate derivatives of Structure 1, prepared according to the above mentioned method, with the corresponding compound of Structure 2a or 2b as starting material.

Table 2a

intermediates of Structure 1:	Formula
Ethyl [3-ureido-1,2,3,4-tetrahydro-9 <i>H</i> -	MW
carbazol-9-yl]-acetate derivatives	
Ethyl (3RS)-[3-(3-benzyl-ureido)-6-fluoro-1,2,3,4-	C25H28FN3O3
tetrahydro-9H-carbazol-9-yl]-acetate	437.51
Ethyl (3S)-[6-fluoro-3-(3-phenethyl-ureido)-	C25H28N3O3F
1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl]-acetate	437.51

· 5

Ethyl (3 <i>RS</i>)-[3-(3-benzyl-ureido)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C24H25CIFN3O3 457.93
Ethyl (3 <i>RS</i>)-[8-chloro-6-fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C25H27CIFN3O3 471.95
Ethyl (3 <i>S</i>)-[6-fluoro-3-(1-methyl-3-phenethyl-ureido)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H30FN3O3 451.53
Ethyl (3 <i>S</i>)-{3-{3-(2-chloro-benzyl)-1-methyl-ureido]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27CIFN3O3 471.95
Ethyl (3 <i>S</i>)-[3-(3-benzyl-1-methyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C25H28FN3O3 437.51
Ethyl (3 <i>S</i>)-{3-[3-benzyl-(1-cyclopropylmethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H32FN3O3 477.57
Ethyl (3 <i>S</i>)-{3-[3-benzyl-1-(2-methoxy-ethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H32FN3O4 481.56
Ethyl (3 <i>S</i>)-[3-(3-benzyl-1-cyclohexylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C31H37N3O3F 519.655
Ethyl (3 <i>S</i>)-[3-(1,3-Dibenzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C29H28FN3O3 513.60

2) Reaction of intermediates of Structure 2a or 2b with chloroformates:

The appropriate chloroformate (neat) and a catalytical amount of DMAP is added to a 0°C cold solution of a hydrochloride of the appropriate intermediate of Structure 2a or 2b (0.132 mmol) and Et₃N (0.034 ml, 0.242 mmol) in DCM (2 ml). The reaction mixture is stirred at rt overnight. Then, a 1:4 mixture (1 ml) of sat. NaHCO₃ solution and H₂O is added. After

phase separation, the aq. layer is extracted three times with DCM. The combined org. phases are washed with 10% citric acid. The solvent is evaporated and the pure (3-oxycarbonylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 1 is obtained by preparative HPLC with 5 to 96% yield.

Listed in Table 3 below are ethyl (3-oxycarbonylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivatives of Structure 1, prepared according to the above mentioned method, with the corresponding compound of Structure 2a or 2b as starting material.

Table 3

5

Intermediates of Structure 1:	Formula	t _R [min]	MS Data
Ethyl (3-oxycarbonylamino-1,2,3,4-	MW ·	LC-MS	m/z
tetrahydro-9 <i>H-</i> carbazol-9-yl)-acetate		Method	
derivatives	• •		
Ethyl (3 <i>R</i>)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C20H26N2O4	1.14	380.98
	358.436	LC-2	[M+Na] ⁺
Ethyl (3 <i>R</i>)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C21H28N2O4	1.20	395.04
	372.463	LC-2	[M+Na]⁺
Ethyl (3 <i>R</i>)-(3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C24H26N2O4	1.17	407.02
	406.48	LC-2	[M+H] ⁺
Ethyl (3 <i>R</i>)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H30N2O5	1.17	473.01
	450:533	LC-2	[M+Na] ⁺
Ethyl (3 <i>S</i>)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C20H26N2O4	1.12	381.09
	358.436	LC-2	[M+Na]⁺
Ethyl (3S)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C21H28N2O4	1.15	373.13
	372.463	LC-2	[M+H] ⁺
Ethyl (3S)-(3-benzyloxycarbonylamino- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)- acetate	C24H26N2O4 406.48	1.16 LC-2	407.2 [M+H] ⁺

Ethyl (3S)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetate

C26H30N2O5 1.17 473.14

450.533 LC-2 [M+Na]⁺

Listed in Table 3a below are further ethyl (3-oxycarbonylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivatives of Structure 1, prepared according to the above mentioned method, with the corresponding intermediate of Structure 2a or 2b as starting material.

5 Table 3a

Intermediates of Structure 1: Ethyl (3-oxycarbonylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate derivatives	Formula MW
Ethyl (3 <i>RS</i>)-(3-benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C25H25N2O4F3 474.478
Ethyl (3 <i>RS</i>)-(3-benzyloxycarbonylamino-8-bromo-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C24H24N2O4BrF 503.367
Ethyl (3 <i>RS</i>)-(3-benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H27N2O4F 450.508
Ethyl (3 <i>RS</i>)-(3-benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C25H27N2O6FS 502.561
Ethyl (3 <i>S</i>)-(3-benzyloxycarbonylamino-6-fluoro-8-methyl-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C25H27N2O4F 438.497
Ethyl (3 <i>S</i>)-(3-benzyloxycarbonylamino-7-chloro-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C24H24CIFN2O4 458.91
Ethyl (3S)-(8-allyl-3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H29N2O4F 464.535

Ethyl (3 <i>R</i>)-(3-benzyloxycarbonylamino-8-chloro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C24H25N2O4CI 440.926
Ethyl (3 <i>S</i>)-[3-(benzyloxycarbonyl-methyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C25H27N2O4F 438.494
Ethyl {(3S)-3-[(2-chloro-benzyloxycarbonyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O4CIF 472.939
Ethyl (3 <i>S</i>)-[3-(benzyloxycarbonyl-cyclopropylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C28H31N2O4F 478.558
Ethyl (3 <i>S</i>)-(3-{benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C33H32N2O5F4 612.614
Ethyl (3S)-{3-[benzyloxycarbonyl-(2-methoxyethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O5F 482.546

3) N-Acylation of an intermediate of Structure 2a or 2b: Method (A)

The appropriate acid chloride (0.132 mmol) and a catalytical amount of DMAP are added to a stirred solution of a hydrochloride of the appropriate intermediate of Structure 2a or 2b (0.11 mmol) and Et₃N (0.034 ml, 0.242 mmol) in DCM (2 ml) at 0°C, and the resulting reaction mixture is kept stirring at rt overnight. Then, a (1:4) mixture (1 ml) of sat. NaHCO₃ and H₂O is added. After phase separation, the aq. layer is extracted three times with DCM, and the combined org. layers are washed with 10% citric acid to remove DMAP. The solvent is evaporated and the pure ethyl (3-acylamido-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 1 is isolated by preparative HPLC in 10 to 95 % yield.

Method (B)

10

15

A solution of a hydrochloride of the appropriate intermediate of Structure 2a or 2b (0.075 mmol) and DIEA (0.15 mmol) in a 4:1 mixture (2 ml) of dry DMF and THF is added

dropwise to a stirred solution of the appropriate carboxylic acid (0.113 mmol), HATU (0.15 mmol) and DIEA (0.15 mmol) in a 4:1 mixture (2 ml) of dry DMF and THF at 0°C. The mixture is stirred at rt for 1 h, or overnight, then sat. NaHCO₃ solution is added. After phase separation, the aq. layer is extracted three times with DCM. The combined org. phases are evaporated. The crude ethyl (3-acylamido-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 1 is obtained with >50% yield and is either used as such in the next step or purified by prepaprative HPLC to give the pure ethyl (3-acylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 1 with 13 to 95% yield.

Listed in Table 4 below are crude ethyl (3-acylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivatives of Structure 1, prepared according to the above mentioned methods (A) or (B), with the corresponding intermediate of Structure 2a or 2b as starting material.

Table 4

Intern	nediates of Structure 1:	Formula	t _R [min]	MS Data
Ethyl	(3-acylamino-1,2,3,4-tetrahydro-9 <i>H</i> -	MW	LC-MS	m/z
carba	zol-9-yl)-acetate derivatives		Method	[M+H] ⁺
Ethyl	(3R)-(3-benzoylamino-1,2,3,4-tetrahydro-9H-	C23H24N2O3	1.11	399.00
carba	zol-9-yl)-acetate	376.455	LC-2	[M+Na]⁺
Ethyl	(3R)-[3-(2-phenoxy-acetylamino)-1,2,3,4-	C24H26N2O4	1.13	428.93
tetrah	ydro-9 <i>H</i> -carbazol-9-yl]-acetate	406.48	LC-2	[M+Na] ⁺
Ethyl	(3R)-(3-phenylacetylamino-1,2,3,4-	C24H26N2O3	1.11	412.97
tetrah	ydro-9 <i>H-</i> carbazol-9-yl)-acetate	390.481	LC-2	[M+Na] ⁺
Ethyl	(3R)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4-	C22H24N2O3S	1.09	396.98
tetrah	ydro-9 <i>H-</i> carbazol-9-yl]-acetate	396.51	LC-2	390.90
Ethyl	(3R)-[3-(3-phenyl-propionylamino)-1,2,3,4-	C25H28N2O3	1.13	427.03
tetrah	ydro-9 <i>H</i> -carbazol-9-yl]-acetate	404.508	LC-2	[M+Na] ⁺
Ethyl	(3R)-[3-(2-benzyloxy-acetylamino)-1,2,3,4-	C25H28N2O4	1.14	421.07
tetrah	ydro-9 <i>H-</i> carbazol-9-yl]-acetate	420.507	LC-2	421.07
Ethyl	(3R)-[3-(3-methyl-butyrylamino)-1,2,3,4-	C21H28N2O3	1.09	357.1
tetrah	ydro-9 <i>H-</i> carbazol-9-yl]-acetate	356.464	LC-2	337.1
Ethyl	(3R)-[3-(3-cyclopentyl-propionylamino)-	C24H32N2O3	1.17	397.05
1,2,3,	4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	396.529	LC-2	387.00
Ethyl	(3R)-(3-decanoylamino-1,2,3,4-tetrahydro-	C26H38N2O3	1.28	449.01
9H-ca	rbazol-9-yl)-acetate	426.599	LC-2	[M+Na]⁺
		•	•	

Ethyl (3S)-[3-(2-phenoxy-acetylamino)-1,2,3,4- C24H26N2O4	1.03	407.23
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 406.48	LC-2	•
Ethyl (3S)-(3-phenylacetylamino-1,2,3,4- C24H26N2O3	1.1	391.13
tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate 390.481	LC-2	
Ethyl (3S)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4- C22H24N2O3S	1.1	397
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 396.51	LC-2	. 001
Ethyl (3S)-[3-(3-phenyl-propionylamino)-1,2,3,4- C25H28N2O3	1.13	405.12
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 404.508	LC-2	400.12
Ethyl (3S)-[3-(2-benzyloxy-acetylamino)-1,2,3,4- C25H28N2O4	1.14	421.09
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 420.507	LC-2	421.09
Ethyl (3S)-[3-(3-mathyl-butyrylamino)-1,2,3,4- C21H28N2O3	1.1	357.13
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 356.464	LC-2	337.13
Ethyl (3S)-[3-(3-cyclopentyl-propionylamino)- C24H32N2O3	1.18	207.46
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 396.529	LC-2	397.16
Ethyl (3S)-(3-decanoylamino-1,2,3,4-tetrahydro- C26H38N2O3	1.15	407.00
9H-carbazol-9-yl)-acetate 426.599	LC-2	427.32
Ethyl (3S)-(3-butyrylamino-1,2,3,4-tetrahydro-9H- C20H26N2O3	1.07	040.45
carbazol-9-yl)-acetate 342.437	LC-2	343.15
Ethyl (3S)-(3-heptanoylamino-1,2,3,4-tetrahydro- C23H32N2O3	1.18	
9H-carbazol-9-yl)-acetate 384.518	LC-2	385.18
Ethyl (3R)-[6-fluoro-3-(2-phenoxy-acetylamino)- C24H25N2O4F	1.15	405.00
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 424.471	LC-2	425.28
Ethyl (3R)-(6-fluoro-3-phenylacetylamino-1,2,3,4- C24H25N2O3F	1.12	
tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate 408.472	LC-2	409.28
Ethyl (3R)-[6-Fluoro-3-(3-phenyl-propionylamino)- C25H27N2O3F	1.15	
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 422.498	LC-2	423.27
Ethyl (3R)-{3-[2-(4-Chloro-phenyl)-acetylamino]-6- C24H24N2O3CIF	1.18	
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate 442.917	LC-2	443.21
Ethyl (3R)-{6-fluoro-3-[2-(4-methoxy-phenyl)-		
acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	1.12	439.2
438.497 acetate	LC-2	
Ethyl (3R)-[6-fluoro-3-(2-p-tolyl-acetylamino)- C25H27N2O3F	1.14	400 = :
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate 422.498	LC-2	423.34
Ethyl (3R)-{3-[2-(3,4-dichloro-phenyl)-acetylamino]-C24H23N2O3Cl2F	1.18	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl}- 477.362	LC-2	477.22

acetate

•		••	
Ethyl (3R)-{3-[2-(3-chloro-phenyl)-acetylamino]-6-	C24H24N2O3CIF	1.16	443.28
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	442.917	LC-2	443.20
Ethyl (3R)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-	C25H24N2O3F4	1.17	
acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-	476.469	LC-2	477.29
acetate	470.409	LU-Z	
Ethyl (3R)-{3-[2-(4-chloro-phenoxy)-acetylamino]-6-	C24H24N2O4CIF	1.18	459.28
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	458.916	LC-2	439.26
Ethyl (3R)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-	C25H27N2O4F	1.18	420.07
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	438.497	LC-2	439.27
Ethyl (3R)-{3-[2-(2-chloro-phenoxy)-acetylamino]-6-	C24H24N2O4CIF	1.17	450.04
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	458.916	LC-2	459.21
Ethyl (3R)-{3-[2-(3-chloro-phenoxy)-acetylamino]-6-	C24H24N2O4CIF	1.18	450.04
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	458.916	LC-2	459.21
Ethyl (3R)-{6-fluoro-3-[3-(4-methoxy-phenyl)-	0001100110045		•
propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-	C26H29N2O4F	1.14	453.26
yl}-acetate	452.524	LC-2	
Ethyl (3R)-[6-fluoro-3-(3-p-tolyl-propionylamino)-	C26H29N2O3F	1.17	407.00
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	436.525	LC-2	437.26
Ethyl (3R)-{3-[3-(4-chloro-phenyl)-propionylamino]-	005110011000015	4.40	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C25H26N2O3CIF	1.18	457.2
acetate	456.943	LC-2	·
Ethyl (3R)-{3-(3-(2-chloro-phenyl)-propionylamino]-	00511001100005	4.40	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C25H26N2O3CIF	1.18	457.2
acetate	456.943	LC-2	-
Ethyl (3R)-{3-[3-(3-chloro-phenyl)-propionylamino]-	005110011000015	4 4-	. · · · · · · · · · · · · · · · · · · ·
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C25H26N2O3CIF	1.17	457.2
acetate	456.943	LC-2	
Ethyl (3S)-{3-[2-(4-chloro-phenyl)-acetylamino]-6-	C24H24N2O3CIF	1.15	
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	442.917	LC-2	443.21
Ethyl (3S)-{6-fluoro-3-[2-(4-methoxy-phenyl)-			• . •
acetylamino]-1,2,3,4-tetrahydro-9 <i>H-</i> carbazol-9-yl}-	C25H27N2O4F	1.12	439.33
acetate	438.497	LC-2	
Ethyl (3S)-[6-fluoro-3-(2-p-tolyl-acetylamino)-	C25H27N2O3F	1.15	
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	422.498	LC-2	423.27
	•	•	

Ethyl (3S)-[6-fluoro-3-(2-phenoxy-acetylamino)-	C24H25N2O4F	1.15	425.28
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	424.471	LC-2	425.26
Ethyl (3S)-[6-fluoro-3-(3-phenyl-propionylamino)-	C25H27N2O3F	1.14	423.27
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	422.498	LC-2	423.21
Ethyl (3S)-{3-[2-(4-chloro-phenoxy)-acetylamino]-6-	C24H24N2O4CIF	1.17	459.21
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	458.916	LC-2	405.21
Ethyl (3S)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-	C25H27N2O4F	1.18	439.27
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	438.497	LC-2	405.21
Ethyl (3S)-{6-fluoro-3-[3-(4-methoxy-phenyl)-	C26H29N2O4F	1.14	
propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-	452.524	LC-2	453.33
yl}-acetate		LO-2	
Ethyl (3S)-[6-fluoro-3-(3-p-tolyl-propionylamino)-	C26H29N2O3F	1.17	437.33
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	436.525	LC-2	407.00
Ethyl (3S)-{3-[3-(4-chloro-phenyl)-propionylamino]-	C25H26N2O3CIF	1.17	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	456.943	LC-2	457.27
acetate		:	
Ethyl (3S)-{3-[3-(2-chloro-phenyl)-propionylamino]-	C25H26N2O3CIF	i.17	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	456.943	LC-2	457.27
acetate			**
Ethyl (3S)-{3-[3-(3-chloro-phenyl)-propionylamino]-	C25H26N2O3CIF	1.18	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	456.943	LC-2	457.27
acetate			
Ethyl (3S)-{3-[3-(3,4-difluoro-phenyl)-	C25H25N2O3F3	1.17	450.00
propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -	458.479	LC-2	459.28
carbazol-9-yl}-acetate			
Ethyl (3S)-{6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	C26H29N2O4F	1.14	453.33
yl}-acetate	452.524	LC-2	. 400.00
Ethyl (3S)-{6-fluoro-3-{3-(2-methoxy-phenyl)-			
propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	C26H29N2O4F	1.16	453.33
yl)-acetate	452.524	LC-2	400.00
Ethyl (3S)-[3-(2,3-diphenyl-propionylamino)-6-	C31H31N2O3F	1.21	
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	498.596	LC-2	499.39
Ethyl (3S)-[3-(3,3-diphenyl-propionylamino)-6-	C31H31N2O3F	1.2	•
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	498.596	LC-2	499.39
indicate of the second of the	. 30.000		

Ethyl (3S)-{3-[4-(4-bromo-phenyl)-4-oxo-butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H26N2O4BrF 529.404	1.17 LC-2	531.25
Ethyl (3 <i>S</i>)-[6-fluoro-3-(4-oxo-4-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H27N2O4F 450.508	1.12 LC-2	451.25
Ethyl (3 <i>S</i>)-{6-Fluoro-3-[4-(4-methanesulfonyl-phenyl)-4-oxo-butyrylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H29N2O6FS 528.599	1.07 LC-2	529.31
Ethyl (3S)-[6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H29N2O3F 448.536	1.18 LC-2	449.31
Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-(4-hydroxy-3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29FN2O5 468.52	1.08 LC-3	469.04
Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-(4-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27FN2O4 438.49	1.07 LC-3	439.06
Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27FN2O5 439.49	1.08 LC-3	439.06
Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27FN2O6 440.49	n. d. LC-3	n. d.
Ethyl (3S)-{3-[(2,3-dihydro-1 <i>H</i> -indole-2-carbonyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26FN3O3 435.49	1.14 LC-3	436.08
Ethyl (3S)-[6-fluoro-3-(3-1 <i>H</i> -indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H28FN3O3 461.53	1.15 LC-3	462.05
Ethyl (3S)-[3-(3-1 <i>H</i> -benzoimidazol-2-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H27FN4O3 462.52	0.86 LC-3	463.09
Ethyl (3S)-[3-(3-benzo[1,3]dioxol-5-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H27FN2O5 466.5	1.15 LC-3	467.03

Ethyl (3S)-{6-fluoro-3-[(1 <i>H</i> -indole-2-carbonyl)-	C25H24FN3O3	n. d.	
amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	433.47	LC-3	n. d.
acetate			
Ethyl (3S)-[6-fluoro-3-(3-pyridin-3-yl-	C24H26FN3O3	n. d.	
propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	423.48	LC-3.	n. d.
yl]-acetate			
Ethyl (3S)-{3-[2-(4-tert-butyl-phenyl)-acetylamino]-	C28H33FN2O3	n. d.	
6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	464.57	LC-3	n. d.
acetate	•	٠. ٠.	
Ethyl (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-	C25H24F4N2O3	n. d.	
acetylamino]-1=2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	476.46	LC-3	n. d.
acetate			
Ethyl (3S)-{6-fluoro-3-[2-(3-trifluoromethyl-phenyl)-	C25H24F4N2O3	1.26	
acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	476.46	LC-2	477.04
acetate	,		
Ethyl (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-	C25H24F4N2O4	n. d.	•
phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -	492.46	LC-3.	n. d.
carbazol-9-yl}-acetate	•		•
Ethyl (3S)-[6-fluoro-3-(3-naphthalen-2-yl-	C29H27FN2O3	1.29	474.05
acryloylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	470.53	LC-2	471.05
yl]-acetate (3.5) [6 fluoro 3 (3 porbholos 3 ul		•	٠.
Ethyl (3S)-[6-fluoro-3-(3-naphthalen-2-yl-	C29H29FN2O3	1.27	473.08
propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	472.55	LC-2	4/3.00
Ethyl (3S)-{6-fluoro-3-[methyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C26H29FN2O3	1.08	437.28
acetate	436.52	LC-3	437.20
Ethyl (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-methyl-	•		
amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	C25H26CIFN2O3	1.09	473.08
yl)-acetate	456.94	LC-3	773.00
Ethyl (3S)-{6-fluoro-3-[ethyl-(3-phenyl-propionyl)-	: : : : : : : : : : : : : : : : : : :	·	
amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C27H31FN2O3	1.09	451.23
acetate	450.55	LC-3	701.20
Ethyl (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-ethyl-	· .		
amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-	C26H28CIFN2O3	1.1	471.22
yl)-acetate	470.96	LC-3	711.22
, ,			

Ethyl (3S)-{6-fluoro-3-[propyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H33FN2O3 464.57	1.11 LC-3	465.23
Ethyl (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-propylamino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H30CIFN2O 484.99	1.12 LC-3	485.20

Listed in Table 4a below are further ethyl (3-acylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivatives of Structure 1, prepared according to the above mentioned methods (A) or (B), with the corresponding intermediate of Structure 2a or 2b as starting material.

Table 4a

Intermediates of Structure 1: Ethyl (3-acylamino-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate derivatives	Formula MW
Ethyl (3S)-{3-[3-(2,4-dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O5F 482.546
Ethyl (3S)-[6-fluoro-3-(3-naphthalen-1-yl-propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C29H29N2O3F 472.555
Ethyl (3RS)-{6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27N2O5F 454.493
Ethyl (3RS)-{6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O3F 436.522
Ethyl (3RS)-{6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O3F 436.522
Ethyl (3RS)-{6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O4F 452.521

491.385

Ethyl (3RS)-{6-fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27N2O5F 454.493
Ethyl (3RS)-{6-fluoro-3-[2-(2-methylphenoxy)-acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H27N2O4F 438.494
Ethyl (3S)-{3-[3-(2,5-dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C22H31N2O5F 482.546
Ethyl (3S)-{6-fluoro-3-{3-(4-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H26N2O3F4 490.492
Ethyl (3S)-{3-[3-(2,6-dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H25N2O3Cl2F 491.385
Ethyl (3S)-{3-[3-(2,5-bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H25N2O3F7 558.489
Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-(4-methylsulfanyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O3FS 468.588
Ethyl (3S)-{6-fluoro-3-[3-(4-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3FI 548.387
Ethyl (3S)-{6-fluoro-3-[3-(4-isopropyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H33N2O3F 464.575
Ethyl (3S)-{6-fluoro-3-[3-(3-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H26N2O3F4 490.492
Ethyl (3S)-{3-{3-(2,4-dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -	C25H25N2O3Cl2F 491.385

carbazol-9-yl}-acetate

Ethyl (3S)-{6-fluoro-3-[3-(4-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3F2 440.485
Ethyl (3 <i>S</i>)-{3-[3-(3,5-bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H25N2O3F7 558.489
Ethyl (3S)-{3-[3-(4-ethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O3F 450.548
Ethyl (3S)-{6-fluoro-3-[3-(3-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3FI 548.387
Ethyl (3S)-{6-fluoro-3-[3-(4-methanesulfonyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O5FS 500.586
Ethyl (3S)-{3-[3-(2,3-dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O5F 482.546
Ethyl (3S)-{3-[3-(2-bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3BrF 501.391
Ethyl (3S)-{6-fluoro-3-[3-(3-trifluoromethoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H26N2O4F4 506.491
Ethyl (3S)-{3-[3-(2,4-dimethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O3F 450.548
Ethyl (3S)-{3-[3-(3-bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3BrF 501.391
Ethyl (3S)-{3-[3-(3-tert-butoxycarbonylamino-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C30H36N3O5F 537.626

Ethyl (3S)-{6-fluoro-3-{(S)-3-(4-fluoro-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C31H30N2O3F2 516.582
Ethyl (3S)-{6-fluoro-3-[(S)-3-(4-methoxy-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C32H33N2O4F 528.618
Ethyl (3S)-{6-fluoro-3-[3-(2-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3F2 440.485
Ethyl (3S)-(6-fluoro-3-{[(2RS)-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H29N2O3F 448.533
Ethyl (3S)-(6-fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C28H31N2O4F 478.558
Ethyl (3S)-(6-fluoro-3-{(2RS)-2-[(4-fluoro-phenylcarbamoyl)-methyl]-3-phenyl-propionylamino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C33H33N3O4F2 573.634
Ethyl (3S)-{3-[(2RS)-2-benzyl-3,3-dimethyl-butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C29H35N2O3F 478.602
Ethyl (3S)-(3-{[(3RS)-chroman-3-carbonyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H27N2O4F 450.505
Ethyl (3S)-{6-fluoro-3-[3-(3-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3F2 440.485
Ethyl (3S)-(6-fluoro-3-{[(1R,2R)-2-phenyl-cyclopropanecarbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate	C26H27N2O3F 434.506

Ethyl (3S)-{6-fluoro-3-[(2R)-2-methyl-3-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetate	C26H29N2O3F 436.522
Ethyl (3S)-[3-(2,2-dimethyl-3-phenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H31N2O3F 450.552 450.548
Ethyl (3S)-[6-fluoro-3-(3-methyl-3-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H31N2O3F 450.548
Ethyl (3S)-{6-fluoro-3-[(3S)-3-phenyl-butyrylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O3F 436.522
Ethyl (3S)-[3-(2-benzyloxy-acetylamino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C25H27N2O4F 438.494
Ethyl (3S)-[6-fluoro-3-(4-phenyl-butyrylamino)- 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H29N2O3F 436.522
Ethyl (3S)-{3-{(2R,3R)-2,3-dihydroxy-3-(2-methoxy-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H30N3O7F 527.543
Ethyl (3RS)-{8-chloro-6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H28N2O3CIF 470.967
Ethyl (3RS)-{8-chloro-6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetate	C25H26N2O5CIF 488.938
Ethyl (3RS)-{8-chloro-6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O4CIF 472.939

488.938

Ethyl (3RS)-{8-chloro-6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H28N2O4CIF 486.966
Ethyl (3RS)-{8-chloro-6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C22H28N2O3CIF 470.967
Ethyl (3 <i>RS</i>)-{8-chloro-6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O4CIF 472.939
Ethyl (3 <i>RS</i>)-[8-chloro-6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C25H26N2O3CIF 456.94
Ethyl (3RS)-{8-chloro-6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H28N2O4CIF 486.966
Ethyl (3RS)-{8-chloro-3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H25N2O3Cl2F 491.385
Ethyl (3 <i>RS</i>)-[8-chloro-6-fluoro-3-(3-1 <i>H</i> -indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H27N3O3CIF 495.977
Ethyl (3RS)-{8-chloro-3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C24H23N2O4Cl2F 493.357
Ethyl (3RS)-{8-chloro-6-fluoro-3-[2-(2-methylphenyl)-oxy-acetylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O4CIF 472.939
Ethyl (3RS)-[3-(3-benzo[1,3]dioxol-5-yl-propionylamino)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H26N2O5CIF 500.949
Ethyl (3RS)-{8-chloro-6-fluoro-3-[2-(3-methoxy-	C25H26N2O5CIF

phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9*H*-

carbazol-9-yl}-acetate

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Ethyl (3RS)-{8-chloro-3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C24H23N2O4Cl2F 493.357
Ethyl (3RS)-{8-chloro-3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H25N2O3Cl2F 491.385
Ethyl (3RS)-[8-chloro-6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C27H28N2O3CIF 482.978
Ethyl (3S)-(6-fluoro-3-{[2-(4-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H29N2O4F 452.521
Ethyl (3 <i>S</i>)-(6-fluoro-3-{methyl-[2-(4-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C22H29N2O3F 436.522
Ethyl (3 <i>S</i>)-(6-fluoro-3-{[2-(2-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H29N2O4F 452.521
Ethyl (3S)-{6-fluoro-3-[(2-indan-2-yl-acetyl)-methyl-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H31N2O3F 462.559
Ethyl (3S)-(3-{[2-(3-chloro-phenyl)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C25H26N2O3CIF 456.94
Ethyl (3S)-(6-fluoro-3-{methyl-[2-(3-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H29N2O3F 436.522
Ethyl (3S)-(6-fluoro-3-{[2-(3-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H29N2O4F 452.521
Ethyl (3S)-(3-{[2-(2-chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-vl)-acetate	C25H26N2O4CIF 472.939

carbazol-9-yl)-acetate

Ethyl (3 <i>S</i>)-(3-{[2-(4-chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C25H26N2O4CIF 472.939
Ethyl (3 <i>S</i>)-(6-fluoro-3-{[3-(3-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H31N2O4F 466.547
Ethyl (3 <i>S</i>)-(6-fluoro-3-{methyl-[2-(2-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C26H29N2O3F 436.522
Ethyl (3 <i>S</i>)-{3-[(3,3-diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C32H33N2O3F 512.619
Ethyl (3 <i>S</i>)-(6-fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H31N2O4F 466.547
Ethyl (3 <i>S</i>)-{6-fluoro-3-[(3-1H-indol-3-yl-propionyl)-methyl-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H30N3O3F 475.558
Ethyl (3 <i>S</i>)-{3-[(2-benzyloxy-acetyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O4F 452.521
Ethyl (3 <i>S</i>)-{3-[(2,3-diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C32H33N2O3F 512.619
Ethyl (3 <i>S</i>)-{6-fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(3-phenyl-propyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C35H39N2O4F 570.699
Ethyl (3 <i>S</i>)-{3-[acetyl-(3-phenyl-propyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H31N2O3F 450.548
Ethyl (3 <i>S</i>)-{3-{cyclopropylmethyl-(3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C29H33N2O3F 476.586

9H-carbazol-9-yl}-acetate

Ethyl (3S)-{3-[cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C30H35N2O3F 490.613
Ethyl (3S)-(3-{cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C30H35N2O4F 506.612
Ethyl (3 <i>S</i>)-(3-{[2-(3-chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C28H30N2O4CIF 513.003
Ethyl (3,S)-{3-[cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C35H37N2O3F 552.684
Ethyl (3S)-{3-[cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C32H33N2O3F 512.619
Ethyl (3S)-(3-{acetyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C27H28N2O4F4 520.518
Ethyl (3S)-(6-fluoro-3-{propionyl-{2-(4-trifluoromethyl-phenoxy)-ethyl}-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C28H30N2O4F4 534.544
Ethyl (3S)-(6-fluoro-3-{(3-phenyl-propionyl)-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C34H34N2O4F4 610.642
Ethyl (3 <i>S</i>)-(6-fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C35H36N2O5F4 640:668
Ethyl (3S)-{6-fluoro-3-[(2-phenoxy-ethyl)-(3-phenyl-propionyl)-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C33H35N2O4F 542.645

Ethyl (3S)-{6-fluoro-3-[((S)-2-methyl-3-phenyl-propionyl)-(2-phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H37N2O4F 556.672
Ethyl (3 <i>S</i>)-{6-fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(2-phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H37N2O5F 572.671
Ethyl (3S)-{3-[acetyl-(2-phenoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C26H29N2O4F 452.521
Ethyl (3S)-{6-fluoro-3-[(2-methoxy-ethyl)-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C28H33N2O4F 480.574
Ethyl (3 <i>S</i>)-{6-fluoro-3-[(2-methoxy-ethyl)-((<i>S</i>)-2-methyl-3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C29H35N2O4F 494.601
Ethyl (3 <i>S</i>)-(6-fluoro-3-{(2-methoxy-ethyl)-[3-(2-methoxy-phenyl)-propionyl]-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C29H35N2O5F 510.6
Ethyl (3 <i>S</i>)-{3-[[2-(3-chloro-phenoxy)-acetyl]-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C27H30N2O5CIF 516.991
Ethyl (3 <i>S</i>)-{3-[(3,3-diphenyl-propionyl)-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H37N2O4F 556.672
Ethyl (3S)-{6-fluoro-3-[(2-methoxy-ethyl)-(2-naphthalen-1-yl-acetyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C31H33N2O4F 516:607
Ethyl (3S)-(6-fluoro-3-{[(2S)-2-methyl-3-phenyl-propionyl]-phenethyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C34H37N2O3F 540:673
Ethyl (3S)-(6-fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-phenethyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-vl)-acetate	C34H37N2O4F 556:672

9H-carbazol-9-yl)-acetate

carbazol-9-yl]-acetate

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Ethyl (3 <i>S</i>)-[3-(acetyl-phenethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C26H29N2O3F 436.522
Ethyl (3S)-{6-fluoro-3-[(2-naphthalen-1-yl-acetyl)-phenethyl-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C36H35N2O3F 562.679
Ethyl (3S)-{6-fluoro-3-[phenethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C33H35N2O3F 526.646
Ethyl (3 <i>S</i>)-[3-(3-benzyl-1-naphthalen-1-ylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C35H34N3O3F 563.667
Ethyl (3 <i>S</i>)-[3-(benzyloxycarbonyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C35H31N2O4F 564.651
Ethyl (3 <i>S</i>)-{6-fluoro-3-[naphthalen-1-ylmethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C36H35N2O3F 562.679
Ethyl (3 <i>S</i>)-{6-fluoro-3-[((<i>S</i>)-2-methyl-3-phenyl-propionyl)-naphthalen-1-ylmethyl-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C37H37N2O3F 576.706
Ethyl (3 <i>S</i>)-(6-fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-naphthalen-1-ylmethyl-amino}-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C37H37N2O4F 592.705
Ethyl (3 <i>S</i>)-{3-[(3,3-diphenyl-propionyl)-naphthalen-1-ylmethyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C42H39N2O3F 638.777
Ethyl (3 <i>S</i>)-[3-(acetyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C29H29N2O3F 472.555
Ethyl (3S)-[6-fluoro-3-(naphthalen-1-ylmethyl-propionyl-amino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-vl]-acetate	C30H31N2O3F 486.581

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Ethyl (3 <i>S</i>)-{6-fluoro-3-[3-pheny ([1,3,4]thiadiazol-2-ylcarbamoy 1,2,3,4-tetrahydro-9 <i>H</i> -carbazol	l)-butyrylamino]-	C29H30FN5O4S 563.64
Ethyl (3S)-[6-fluoro-3-(3-thiophopropionylamino)-1,2,3,4-tetrahy 9-yl]-acetate	• •	C23H25FN2O3S 428.012
Ethyl (3 <i>S</i>)-{3-[3-(3-chloro-isoxa propionylamino]-6-fluoro-1,2,3, carbazol-9-yl}-acetate		C22H23CIFN3O4 447.88
Ethyl (3 <i>S</i>)-[6-Fluoro-3-(3-pyrim propionylamino)-1,2,3,4-tetrahy 9-yl]-acetate		C23H25FN4O3 424.46
Ethyl (3S)-(3-{acetyl-[2-(2-fluoroamino}-6-fluoro-1,2,3,4-tetrahyd		C26H28F2N2O3 454.51
Ethyl (3S)-(3-{acetyl-[2-(3-fluoroamino}-6-fluoro-1,2,3,4-tetrahyd		C26H28F2N2O3 454.51
Ethyl (3 <i>S</i>)-(3-{cyclohexylmethyl phenyl)-propionyl]-amino}-6-flutetrahydro-9 <i>H</i> -carbazol-9-yl)-ac	oro-1,2,3,4-	C33H41N2O4F 548.693

General Method for the Preparation of Intermediates of Structure 1, wherein R⁴ represents C₁₋₅-alkyl or allyl

To a stirred and degassed solution of an appropriately protected ethyl (3-amino-8-bromo-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure **2c** (0.2 mmol) and Pd(PPh₃)₄ (0.02 mmol, 0.1 eq.) in dry DMF (1.5 ml) is added under inert atmosphere the appropriate tetraC₁₋₅-alkyltin or allyltrialkyltin, respectively (0.22 mmol, 1.1 eq.). The reaction mixture is allowed to stir overnight at 110°C. After cooling to rt, acetonitrile (1 ml) and heptane (1 ml) are added. The acetonitrile-DMF phase is washed three times with heptane. Water is then added and the resulting aq. phase is extracted twice with AcOEt. The combined org. phases are washed with brine and dried over Na₂SO₄. Evaporation of the solvent *in vaccuo* yields the protected ethyl (3-amino-8-C₁₋₅-alkyl-1,2,3,4-tetrahydro-9*H*-

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carbazol-9-yl)-acetate derivative or ethyl (3-amino-8-allyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 1, respectively.

Intermediates of Structure 1 wherein R⁴ represents C₁₋₅-alkyl or allyl:

Ethyl (3S)-(3-benzyloxycarbonylamino-6-fluoro-8-methyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate is obtained in quantative yield as a yellow oil. $t_R = 1.09 \text{ min (LC-3)}$, ESI-MS (pos.): m/z 439.15 [M+H]⁺.

Ethyl (3S)-(3-benzyloxycarbonylamino-6-fluoro-8-allyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate is obtained in quantative yield as a yellow oil. $t_R = 1.11$ min (LC-3), ESI-MS (pos.): m/z 465.22 [M+H]⁺.

General Method for the Preparation of Intermediates of Structure 1 wherein R⁴ represents vinyl

A suspension of an appropriately protected ethyl (3-amino-8-bromo-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure **2c** (0.4 mmol), vinylboronic anhydride pyridine complex (0.22 mmol, 0.56 eq.), Pd(PPh₃)₄ (23 mg, 0.02 mmol, 0.05 eq.), and K₂CO₃ (55 mg, 0.4 mmol, 1 eq.) in 1 ml (DME/ H₂O) is stirred for 4 h at reflux. Water is added and the resulting aq. phase is extracted three times with AcOEt. The combined org. phases are dried over Na₂SO₄, filtered and concentrated *in vaccuo*. The crude product is purified by FC (heptane / AcOEt, 3:1) to yield protected ethyl (3-amino-8-vinyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate derivatives of Structure **1**.

Intermediate of Structure 1 wherein R⁴ represents vinyl:

Ethyl (3S)-(3-benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate is obtained in 87% yield as a white solid. $t_R = 1.11 \text{ min (LC-3)}$, ESI-MS (pos.): m/z 451.19 [M+H]⁺.

General Method for the Preparation of Intermediates of Structure 1 wherein R⁴ represents C₁₋₆-alkylsulfonyl

A solution of an appropriately protected ethyl (3-amino-8-bromo-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 2c (0.238 mmol), cuprous iodide (204 mg, 1.073 mmol, 4.5 eq.) and sodium methanesulfinate (129 mg, 1.073 mmol, 4.5 eq.) in degassed NMP (5 ml) is heated under inert atmosphere at 140°C overnight. Then, the mixture is diluted with heptane (5 ml) and AcOEt (5 ml) and filtered over a pad of silica gel

with AcOEt as eluent. The solvent is removed in vaccuo and the residue dissolved in AcOEt and H₂O. The phases are separated and the aq. phase is extracted twice with AcOEt. The combined org. phases are washed with brine and H₂O, dried over Na₂SO₄ and concentrated in vacuuo to yield the corresponding ethyl (3-amino-8-methanesulfonyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate derivative of Structure 1.

Intermediate of Structure 1 wherein R⁴ represents C₁₋₆-alkylsulfonyl:

Ethyl (3RS)-(3-benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate is obtained in quantitative yield as a brown solid. $t_R = 1.04$ min (LC-3), ESI-MS (pos.): m/z 503.12 [M+H]⁺.

General Methods for the Preparation of Intermediates of Structure 2a:

$$R^{2}$$
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 R^{4}
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Structure

2a: $R^5 \neq H$

2b: $R^5 = H$

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Method (A)

Step A) 4-Nitro-benzenesulfonylation of an intermediate of Structure **2b** to yield an ethyl [3-(4-nitro-benzenesulfonylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetate derivative of Structure **3a**:

A catalytical amount of DMAP and p-nitrobenzenesulfonyl chloride (223 mg, 1.01 mmol) are added to an ice cold stirred solution of the appropriate (3-amino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate derivative hydrochloride of Structure 2b (0.92 mmol) and pyridine (0.96 ml, 11.9 mmol) in DCM. The reaction mixture is allowed to warm up to rt and is continued to stir overnight. The reaction is then quenched by addition of H₂O and sat.

NaHCO₃ solution. After phase separation the aq. phase is extracted with DCM. The combined org. phases are dried over Na₂SO₄, filtered, and the solvent is evaporated to dryness. The crude product is filtered through a plug of silica gel (heptane/AcOEt, 2:1) to give the desired intermediate of Structure 3a.

Intermediate of Structure 3a: Ethyl (3S)-[6-fluoro-3-(4-nitro-benzenesulfonylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetate is obtained in 71% yield as a yellow solid: $t_R = 1.05 \text{ min (LC-3)}$, ESI-MS (pos.): m/z 476.12 [M+H]⁺.

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Step B) N-Substitution of a 4-nitro-benzenesulfonamide intermediate of Structure 3a to yield intermediates of Structure 3b:

Following a procedure described in the literature (Peña, C. et al. Tetrahedron Lett. 2005, 46, 2783-2787), a stirred suspension of the appropriate intermediate of Structure 3a (0.21 mmol), K₂CO₃ (291 mg, 2.1 mmol) and tetrabutylammonium bromide (6.78 mg, 0.021 mmol) in toluene (2 ml) is heated at 70°C for 30 min before adding the corresponding alkylating agent R⁵-L (0.841 mmol). The reaction mixture is continued to stir at 70°C overnight, cooled to rt, and treated with sat. NH₄Cl solution. After phase separation, the aq. layer is extracted three times with DCM. The combined org. phases are dried over Na₂SO₄, filtered, and the solvent evaporated to dryness, affording the corresponding intermediate of Structure 3b in quantitative yield.

Listed in Table 5 below are intermediates of Structure 3b, prepared according to the above-mentioned method.

20 Table 5

Intermediates	s of Structure 3b	Formula MW	t _R [min] Meth.	MS Data m/z [M+H] ⁺
			well.	IINS [MALI]
Ethyl	(3S)-{6-fluoro-3-[methyl-(4-nitro-	C23H24N3O6F	1.09	
benzenesulfor	nyl)-amino]-1,2,3,4-tetrahydro-	•		490.05
9H-carbazol-9)-yl}-acetate	489.52	(LC-3)	
Ethyl	(3S)-{6-fluoro-3-[ethyl-(4-nitro-	C24H26N3O6FS	1.11	
benzenesulfo	nyl)-amino]-1,2,3,4-tetrahydro-			504.15
9H-carbazol-9)-yl}-acetate	503.549	LC-3	
Ethyl _	(3S)-{6-fluoro-3-[propyl-(4-nitro-	COSUDONO OCEÓ	4 42	
benzenesulfo	nyl)-amino]-1,2,3,4-tetrahydro-	C25H28N3O6FS		518.23
9 <i>H</i> -carbazol-9	· ·	517.576	LC-3	

Listed in Table 5a below are further intermediates of Structure 3b, prepared according to the above-mentioned method.

Table 5a

Intermediates of Structure 3b	Formula MW	t _R [min] Method	MS Data m/z
			[M+H]*
Ethyl (3S)-{6-fluoro-3-[(4-nitro-benzenesulfonyl)-(3-phenyl-propyl)-amino]-	C31H32N3O6FS	1.16	594.12
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	593.674	LC-3	354.12
Ethyl (3S){-3-[cyclopropylmethyl-(4-nitro-	C26H28N3O6FS	1.12	
benzenesulfonyl)-amino]-6-fluoro-1,2,3,4- tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	529.587	LC-3	530.02
Ethyl (3S)-(6-fluoro-3-{(4-nitro-	(4)		
benzenesulfonyl)-[2-(3-trifluoromethyl-	C31H29N3O7F4S	1.17	004.4=
phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9H-	663.643	LC-3	664.17
carbazol-9-yl)-acetate		· . ·	
Ethyl (3S)-{6-fluoro-3-[(4-nitro-benzenesulfonyl)-(2-phenoxy-ethyl)-amino]-	C30H30N3O7FS	1.14	596.18
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	595.646	LC-3	000.10
Ethyl (3S)-{6-fluoro-3-[(2-methoxy-ethyl)-(4-	C25H28N3O7FS	1.09	
nitro-benzenesulfonyl)-amino]-1,2,3,4-	533.575	LC-3	534.16
tetrahydro-9H-carbazol-9-yl}-acetate	000.070	LO-3	

Step C) Cleavage of the 4-nitro-benzenesulfonyl group to yield an intermediate of Structure **2a**:

In analogy to the literature (Miller, S. C.; Scanlan, T. S. J. Am. Chem. Soc. 1997, 119, 2301-2302), mercaptoacetic acid (0.019 ml, 0.267 mmol) and DBU (0.081 ml, 0.53 mmol) are added to a stirred solution of an intermediate of Structure 3b (0.179 mmol) in dry DMF (2 ml). The reaction mixture is allowed to stir overnight, then, at rt, sat. Na₂CO₃ solution, H₂O and DCM are added. After phase separation, the org. layer is extracted twice with sat. Na₂CO₃ solution, and twice with H₂O. The combined org. phases are washed with brine and dried over Na₂SO₄. After filtration, the solvent is evaporated and the residue is purified by preparative tlc on silica gel (DCM/MeOH/NH₄OH, 90:10:1) to give the desired intermediate of Structure 2a in 30-40% yield.

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Listed in Table 6 below are intermediates of Structure 2a, prepared according to the above-mentioned method.

Intermediates of Structure 2a	Formula	t _R [min]	MS Data
	MW	Method	m/z [M+H] ⁺
Ethyl (3S)-(6-fluoro-3-methylamino-1,2,3,4-	C17H21FN2O2	0.76	305.19
tetrahydro-9H-carbazol-9-yl)-acetate	304.36	LC-3	303.19
Ethyl (3S)-(6-fluoro-3-ethylamino-1,2,3,4-	C18H23FN2O2	0.78	319.14
tetrahydro-9H-carbazol-9-yl)-acetate	318.39	LC-3	319.14
Ethyl (3S)-(6-fluoro-3-propylamino-1,2,3,4-	C19H25FN2O2	0.81	333.15
tetrahydro-9H-carbazol-9-yl)-acetate	332.41	LC-3	333.15
Tab	le 6	· 🕏	

Listed in Table 6a below are further intermediates of Structure 2a, prepared according to the abovementioned method.

Table 6a

Intermediates of Structure 2a	Formula MW	t _R [min] LC-MS	MS Data m/z
		Method	[M+H] ⁺
Ethyl (3S)-[6-fluoro-3-(3-phenyl-propylamino)-	C25H29N2O2F	0.91	409.15
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	408.515	LC-3	403.13
Ethyl (3S)-[3-(cyclopropylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C20H25N2O2F 344.428	0.82 LC-3	345.18
Ethyl (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenoxy)-ethylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C25H26N2O3F4 478.484	0.95 LC-3	479.07
Ethyl (3 <i>S</i>)-[6-fluoro-3-(2-phenoxy-ethylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C24H27N2O3F 410.487	0.88 LC-3	411.10
Ethyl (3S)-[6-fluoro-3-(2-methoxy-ethylamino)-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C19H25N2O3F 348.417	0.77 LC-3	349.15

Method (B)

To a stirred suspension of an appropriate ethyl (3-amino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative hydrochloride of Structure **2b** (0.73 mmol) and DIEA (0.769 mmol,

0.132 ml, 1.05 eq.) and the corresponding aldehyde (0.806 mmol, 1.1 eq.) in DCM (10 ml) is added NaBH(OAc)₃ (1.62 mmol, 2.2 eq.). The reaction mixture is stirred overnight and diluted with DCM and sat. NaHCO₃ solution. The resulting aq. phase is extracted three times with DCM. The combined org. phases are dried over Na₂SO₄, filtered, and the solvent is evaporated to dryness. The crude product is purified by flash-chromatography on silica gel (DCM/MeOH, 95:5) to give the desired intermediate of Structure 2a in 66 to 95% yield.

Listed in Table 6b below are intermediates of Structure 2a, prepared according to the abovementioned method.

10 Table 6b

Intermediates of Structure 2a	Formula MW	t _R [min] LC-MS	MS Data m/z
		Method	[M+H] ⁺
Ethyl (3S)-(6-fluoro-3-phenethylamino-1,2,3,4-	C24H27N2O2F	0.88	395.18
tetrahydro-9H-carbazol-9-yl)-acetate	394.488	LC-3	393.10
Ethyl (3S)-{6-fluoro-3-[(naphthalen-1-ylmethyl)-amino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	C27H27N2O2F	0.91	431.22
acetate	430.521	LC-3	
Ethyl (3S)-(3-benzylamino-6-fluoro-1,2,3,4-	C23H25N2O2F	0.89	381.16
tetrahydro-9H-carbazol-9-yl)-acetate	380.461	LC-3	301.10
Ethyl (3S)-{6-fluoro-3-[2-(2-fluoro-phenyl)-	C24H26N2O2F2	0.88	413.14
ethylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	412.478	LC-3	413.14
Ethyl (3S)-{6-fluoro-3-[2-(3-fluoro-phenyl)-	C24H26N2O2F2	0.88	
ethylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	412.478	LC-3	413.14
Ethyl (3S)-[3-(cyclohexylmethyl-amino)-6-fluoro-	C23H31N2O2F	0.88	207.20
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	386.509	LC-3	387.20

General Procedures for the Preparation of Intermediates of Structure 2b:

$$R^2$$
 R^3
 R^4
 R^4
 R^3
 R^4
 R^4
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 R^4
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 R^4
 R^4

5 Cleavage of PG= tert-butoxycarbonyl

To a stirred solution of an ethyl (3-tert-butoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetate derivative of Structure 2c (1.61 mmol) in THF (4 ml) is added 2N HCl (2 ml) in diethylether, or in AcOEt. The reaction mixture is stirred overnight, and the formed precipitate is filtered off, rinsed with diethylether and dried to give the desired intermediate of Structure 2b as a white solid in quantitative yield.

Listed in Table 7 below are intermediates of Structure 2b, prepared according to the above-mentioned method, with corresponding intermediate of Structure 2c as starting material.

Table 7

Intermediates of Structure 2b	Formula MW	t _R [min] Method	MS Data m/z [M+H] [*]
	. •		(parent)
Ethyl (3 <i>R</i>)-(3-amino-1,2,3,4-tetrahydro-9 <i>H</i> -	C16H21N2O2CI	0.74	273.16
carbazol-9-yl)-acetate hydrochloride	308.807	LC-2	. 213.10
Ethyl (3S)-(3-amino-1,2,3,4-tetrahydro-9 <i>H</i> -	C16H21N2O2CI	0.74	070.46
carbazol-9-yl)-acetate hydrochloride	308.807	LC-2	273.16
Ethyl (3R)-(3-amino-6-fluoro-1,2,3,4-	C16H20CIFN2O2	0.74	
tetrahydro-9H-carbazol-9-yl)-acetate	C 16H2UCIFN2O2	0.74.	291.15
hydrochloride	326.79	LC-2	
Ethyl (3S)-(3-amino-6-fluoro-1,2,3,4-			
tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	C16H20N2O2CIF	0.73	291.11
hydrochloride	326.79	LC-2	201.11

Cleavage of PG= benzyloxycarbonyl

To a stirred solution of an ethyl (3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetate derivative of Structure 2c (7.58 mmol) in AcOH (85 ml) and EtOH (20 ml) is added Pd /C (806 mg, 0.76 mmol, 0.1 eq.). The reaction mixture is stirred for 1h under a H₂ atmosphere then diluted with DCM and filtered over a plug of celite. A solution of 4M HCl in dioxane (30 ml, 10 eq.) is added to the filtrate and the solvents are removed *in vaccuo* to give an intermediate of Structure 2b.

Listed in Table 7a below are further intermediates of Structure 2b, prepared according to the above-mentioned methods, with the corresponding intermediate of Structure 2c as starting material.

Table 7a

Intermediates of Structure 2b	Formula	t _R [min]	MS Data
	MW	LC-MS	m/z
		Method	[M+H] ⁺
Ethyl (3RS)-(3-amino-8-chloro-6-fluoro-1,2,3,4-	C16H19N2O2Cl2F	0.78	205.05
tetrahydro-carbazol-9-yl)-acetate hydrochloride	361.243	LC-3	325.05
Ethyl (3RS)-(3-amino-6-fluoro-1,2,3,4-	C20H19N2O2F	1.02	220.40
tetrahydro-carbazol-9-yl)-acetate hydrochloride	338.381	LC-3	339.12

General Method for the Synthesis of Intermediates of Structure 2c:

Structure 2c

Alkylation of an intermediate of Structure 4:

A solution of e.g. ethyl bromoacetate (1.25 ml, 11.25 mmol) in dry DMF (20 ml) is added dropwise to a heated (60°C) solution of an intermediate of Structure 4 (10.22 mmol) and Cs₂CO₃ (9.99 g, 30.67 mmol) in dry DMF (50 ml) over a period of 15 min. The resulting suspension is continued to stir at 60°C for 1 h, or overnight. After cooled to rt, the reaction

mixture is filtered and washed with DCM. The DCM is evaporated and the residue is partitioned between AcOEt and H₂O. The aq. layer is extracted three times with AcOEt. The combined org. layers are washed with H₂O and brine, dried over MgSO₄ and filtered. The solvent is evaporated and the solid residue is purified by FC with a continuous gradient of eluents from AcOEt/ heptane 1:99 to 1:1 to give the desired intermediate of Structure 2c in 40 to 80% yield.

Listed in Table 8 below are intermediates of Structure 2c, prepared according to the above-mentioned method, starting from corresponding intermediate of Structure 4.

10 Table 8

		•	K.
Intermediates of Structure 2c	Formula MW	t _R [min]	MS Data m/z
		Method	[M+Na] ⁺
		· · .	or [M+H]*
Ethyl (3R)-(3-tert-	C21H28N2O4	1.15	
butoxycarbonylamino-1,2,3,4-	372.463	LC-2	394.95
tetrahydro-9H-carbazol-9-yl)-acetate	372.403	LO-2	
Ethyl (3S)-(3-tert-	C21H28N2O4	1.15	
butoxycarbonylamino-1,2,3,4-	372.463	LC-2	395.15
tetrahydro-9H-carbazol-9-yl)-acetate	372.403	LŲ-Z	
Ethyl (3R)-(3-tert-			
butoxycarbonylamino-6-fluoro-	C21H27FN2O4	1.15	440.00
1,2,3,4-tetrahydro-9H-carbazol-9-yl)-	390.45	LC-2	413.09
acetate			
Ethyl (3S)-(3-tert-		• .	
butoxycarbonylamino-6-fluoro-	C21H27FN2O4	1.16	413.09
1,2,3,4-tetrahydro-9H-carbazol-9-yl)-	390.45	LC-2	413.09
acetate			
Ethyl (3 <i>RS</i>)-(3-			
benzyloxycarbonylamino-8-chloro-5-	C24H24N2O4CIF	1.11	458.99
fluoro-1,2,3,4-tetrahydro-9H-carbazol-	458.916	LC-3	400.99
9-yl)-acetate	, .		•
Ethyl (3 <i>RS</i>)-(3-	C24H25N2O4F	1.06	•
benzyloxycarbonylamino-6-fluoro-		٠	425.22
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-	424.47	LC-3	

acetate

Ethyl (3*RS*)-(3-benzyloxycarbonylamino-8-chloro-6- C24H24N2O4ClF 1.11 fluoro-1,2,3,4-tetrahydro-9*H*-carbazol- 458.916 LC-3 9-yl)-acetate

Listed in Table 8a below are further intermediates of Structure 2c, prepared according to the above-mentioned method, starting from corresponding intermediate of Structure 4.

Table 8a

Intermediates of Structure 2c	Formula	t _R [min]	MS Data
	MW	LC-MS	m/z [M+H] ⁺
		Method	
Ethyl (3 <i>RS</i>)-(3-benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-	C25H25N2O4F3	1.11	475.14
9-yl)-acetate	474.478	LC-3	470.14
Ethyl (3RS)-(3-benzyloxycarbonylamino-8-	C24H24N2O4BrF	1.11	
bromo-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetate	503.367	LC-3	505.11
Ethyl (3 <i>S</i>)-(3-benzyloxycarbonylamino-7-chloro-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-	C24H24CIFN2O4	not	not
9-yl)-acetate	458.91	determined	determined
Ethyl (3 <i>R</i>)-(3-benzyloxycarbonylamino-8-chloro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-	C24H25N2O4CI 440.926	1.1 LC-3	441.07
acetate			•

Listed in Table 9 below are intermediates of Structure 4, prepared in analogy to the procedure described in the literature (Ha, J. D. et al., Bulletin of the Korean Soc. Chem. 2004, 25, 1784-1790).

Table 9

Intermediates of Structure 4	Formula	t _R [min]	MS Data
•	MW	Method m/z [M+H] ⁺	
(3RS)-(8-Chloro-5-fluoro-2,3,4,9-	C20H18N2O2CIF 372.825	1.07 LC-3	373.03
tetrahydro-1H-carbazol-3-yl)-			
carbamic acid benzyl ester			

(3RS)-(8-Chloro-6-fluoro-2,3,4,9-tetrahydro-1 <i>H</i> -carbazol-3-yl)-carbamic acid benzyl ester	C20H18N2O2CIF 372.825	1.06 LC-3	372.99
(3RS)-(6-Fluoro-2,3,4,9-tetrahydro-	C20H19N2O2F	1.02	
1 <i>H</i> -carbazol-3-yl)-carbamic aci	d 338.38	LC-3	339.12
benzyl ester			

Listed in Table 9a below are further intermediates of Structure 4, prepared according to the abovementioned procedure.

Table 9a

Intermediates of Structure 4	Formula MW	t _R [min] Method	MS Data m/z
			[M+H] ⁺
(3RS)-(6-Trifluoromethyl-2,3,4,9-tetrahydro-1 <i>H</i> -carbazol-3-yl)-	C21H19N2O2F3	1.07	389.08
carbamic acid benzyl ester	388.388	LC-3	
(3RS)-(8-Bromo-6-fluoro-2,3,4,9-	C20H18N2O2BrF 417.277	1.07	417.03
tetrahydro-1 <i>H</i> -carbazol-3-yl)- carbamic acid benzyl ester		LC-3	
(3RS)-(7-Chloro-6-fluoro-2,3,4,9-tetrahydro-1 <i>H</i> -carbazol-3-yl)-	C20H18N2O2CIF 372.825	1.05	373.07
carbamic acid benzyl ester		LC-3	
(3R)-(8-Chloro-2,3,4,9-tetrahydro-	C20H19N2O2CI 354.836	1.05	355.11
1 <i>H</i> -carbazol-3-yl)-carbamic acid benzyl ester		LC-3	

General Method for the Preparation of Intermediates of Structure 1 from intermediates of Structure 8a

To a solution of the respective amine (0.140 mmol, 1.5 eq.), HATU (0.140 mmol, 1.5eq.) and DIEA (0.048 ml, 0.280 mmol, 3 eq.) in 0.5 ml (DMF/THF 4:1) is added a solution of an intermediate of Structure 8a in 0.5 ml (DMF/THF 4:1). The reaction mixture is stirred for 20h, then diluted with DCM and sat. NaHCO₃ solution. After stirring for an additional 1h, H₂O is added and the org. phase is separated. The aq. phase is extracted with DCM, the

combined org. extracts are concentrated under a stream of air to yield the desired crude intermediate of Structure 1.

Listed in Table 10 below are intermediates of Structure 1, prepared according to the abovementioned method with corresponding intermediate of Structure 8a as starting material.

Table 10

Intermediates of Structure 1 starting from intermediates of Structure 8a	Formula MW	t _R [min] LC-MS Method	MS Data m/z [M+H] ⁺
Ethyl (3S)-{3-[(RS)-2-benzyl-3-(2-methylbenzyl)-carbamoyl-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H36FN3O4 569.67	1.06 LC-3	570.21
Ethyl (3S)-{3-[(RS)-2-benzyl-3-(3-methoxy-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H36FN3O5 585.67	1.06 LC-3	586.21
Ethyl (3 <i>S</i>)-{3-[(<i>RS</i>)-2-benzyl-3-(4-chloro-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C33H33CIFN3O4 590.08	1.09 LC-3	590.2
Ethyl (3S)-{3-[(RS)-2-benzyl-3-(4-fluoro-benzylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetate	C34H35F2N3O4 587.66	1.05 LC-3	588.25
Ethyl [(3S)-3-((RS)-2-benzyl-3-propylcarbamoyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetate	C30H36FN3O4 521.62	1 LC-3	522.26

General Method for the Preparation of Intermediates of Structure 8a from intermediates of Structure 8b

$$R^{2}$$
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{5}
 R^{5}
 R^{5}
 R^{4}
 R^{5}
 R^{6}
 R^{7}
 R^{4}
 R^{7}
 R^{7

Structure

8a, wherein R' represents H and R represents C₁₋₄-alkyl

8b, wherein R' and R independently represent C₁₋₄-alkyl

A solution of an intermediate of Structure 8b (0.54 mmol) and TFA (0.8 ml, 10 mmol, 20 eq.) in DCM (8 ml) is stirred for 2.5h. The volatiles are removed under reduced pressure to yield an intermediate of Structure 8a.

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Intermediate of Structure 8a: 3-benzyl-N-(9-ethoxycarbonylmethyl-6-fluoro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)-succinamic acid is quantitative yield as light brown foam. $t_R = 0.97 \text{ min (LC-3)}$, ESI-MS (pos.): m/z 481.22 [M+H]⁺.

15 General Method for the Preparation of Intermediates of Structure 8b from intermediates of Structure 2a or 2b

A solution of an appropriate intermediate of Structure 2a or 2b (2.16 mmol), an appropriate C₁₋₄alkanedicarboxylic acid mono-ester of Structure 9 (4.05 mmol, 1.9 eq.), DIEA (1.5 ml, 8.65 mmol, 4 eq.) and HATU (1.64 g, 4.32 mmol, 2 eq.) in 10 ml (DMF / THF, 4:1) is stirred overnight. The reaction mixture is diluted with AcOEt and sat. NaHCO₃. The aq. phase is extracted twice with AcOEt. The combined org. extracts are washed with brine, dried over MgSO₄, and concentrated *in vacuo*. The residue is purified by flash-chromatography on silica gel with a gradient of heptane/AcOEt to yield the desired intermediate of Structure 8b.

Intermediate of Structure 8b:

3-Benzyl-N-(9-ethoxycarbonylmethyl-6-fluoro-2,3,4,9-tetrahydro-IH-carbazol-3-yl)-succinamic acid *tert*-butyl ester is obtained in 25% yield as an orange oil: $t_R = 1.10$ min (LC-3), ESI-MS (pos.): m/z 537.28 [M+H]⁺.

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Starting materials:

Starting materials of Structure 4:

- (3R)-(2,3,4,9-tetrahydro-1H-carbazol-3-yl)-carbamic acid 1,1-dimethylethyl ester,
- (3S)-(2,3,4,9-tetrahydro-1H-carbazol-3-yl)-carbamic acid 1,1-dimethylethyl ester,
- 10 (3R)-(6-fluoro-2,3,4,9-tetrahydro-1H-carbazol-3-yl)-carbamic acid 1,1-dimethylethyl ester, and
 - (3S)-(6-fluoro-2,3,4,9-tetrahydro-1*H*-carbazol-3-yl)-carbamic acid 1,1-dimethylethyl ester; as well as

Starting materials of Structure 7:

- 15 (3R)-(2,3,4,9-tetrahydro-1H-carbazol-3-ylamine),
 - (3S)-(2,3,4,9-tetrahydro-1H-carbazol-3-ylamine),
 - (3R)-(6-fluoro-2,3,4,9-tetrahydro-1H-carbazol-3-ylamine), and
 - (3S)-(6-fluoro-2,3,4,9-tetrahydro-1H-carbazol-3-ylamine),
 - are prepared according to literature procedures (Rosentreter U. et al., Arzneim.-Forsch.
- 20 1989, 39(12), 1519-1521); EP 0242518; Ha J. D. et al., Bulletin of the Korean Soc. Chem. 2004, 25, 1784-1790; WO 03/033099).

Starting materials of Structure 9:

Starting materials of Structure 9 are commercially available or synthesized according to well known methods (see for example: J. Org. Chem. 1986, 51(6), 938-940).

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NMR data of selected compounds are given in Table 11 below.

Table 11

Compound	Chemical shifts (δ) in parts per million (ppm)	Solvent
(3S)-[3-(3-Cyclopentyl-	0.99 (br.s, 2H), 1.41-1.64 (m, 9H), 1.98 (m, 2H),	
propionylamino)-1,2,3,4-	2.06 (t, 2H), 2.48-2.72 (m, 4H), 2.99 (m, 1H),	CDCI
tetrahydro-9H-carbazol-9-	2.06 (t, 2H), 2.48-2.72 (m, 4H), 2.99 (m, 1H), 4.33 (m, 1H), 4.63 (s, 2H), 6.03 (d, 1H), 6.94-	CDCi3
yl]-acetic acid	7.14 (m, 3H), 7.32 (d, 2H).	
(3RS)-[3-(3-Benzyl-	1.78 (m, 1 H), 2.02 (m, 1 H), 2.48 (m, 1 H), 2.69	DMSO-

ureido)-6-fluoro-1,2,3,4-	(m, 2 H), 2.92 (dd, 1 H), 3.93 (m, 1 H), 4.23 (m, 2	<i>d</i> ₆
tetrahydro-9H-carbazol-9-	H), 4.86 (d, 2 H), 6.09 (d, 1 H), 6.30 (t, 1 H), 6.88	
yl]-acetic acid	(td, 1 H), 7.15 (dd, 1 H), 7.24 (m, 3 H), 7.32 (m, 3	
	H)	
(3S)-{6-Fluoro-3-[3-(4-	1.19 (d, 6 H), 1.73 (m, 1 H), 1.97 (m, 1 H), 2.38	
isopropyl-phenyl)-	(t, 2 H), 2.36-2.45 (m, 1H), 2.70 (m, 2 H), 2.80 (t,	
propionylamino]-1,2,3,4-	2H), 2.82-2.90 (m, 2H), 4.01 (m, 1 H), 4.87 (m, 2	DMSO-
tetrahydro-9 <i>H</i> -carbazol-9-	H), 6.88 (dt, 1 H), 7.01 (m, 4 H), 7.33 (dd, 1 H),	d_6
yl}-acetic acid	7.93 (d, 1 H), 12.90 (bs., 1H)	
(3S)-(6-Fluoro-3-{(2RS)-2-	1.59 (m, 0.5 H), 1.74 (m, 1 H), 1.91 (m, 0.5 H),	
[(4-fluoro-	2.32 (m, 2 H), 2.68 (m, 4 H), 2.90 (m, 1 H), 3.08	
phenylcarbamoyl)-methyl]-	(m, 1 H), 3.57 (m, 1 H), 3.95 (m, 1 H), 4.84 (m, 2	DMSO-
3-phenyl-propionylamino}-	H), 6.87 (m, 1 H), 6.97 (d, 0.5 H), 7.10 (m, 2.5	d_6
1,2,3,4-tetrahydro-9 <i>H</i> -	H), 7.21 (m, 3 H), 7.30 (m, 3 H), 7.60 (m, 2 H),	
carbazol-9-yl)-acetic acid	7.97 (t, 1 H), 9.99 (d, 1 H), 13.00 (br.s, 1H)	*
(3 <i>S</i>)-[3-	0.26 (m, 2 H), 0.47 (d, 2 H), 1.07 (m, 1 H), 2.05	
(Benzyloxycarbonyl-	(m, 1 H), 2.18 (m, 1 H), 2.82 (m, 2H), 3.21 (d, 2	
cyclopropylmethyl-amino)-	H), 4.10 (m, 1 H), 4.88 (s, 2 H), 5.14 (s, 2 H),	DMSO-
6-fluoro-1,2,3,4-	6.88 (t, 1 H), 7.19 (d, 1 H), 7.45 (m, 6 H), 12.90	d_6
tetrahydro-9H-carbazol-9-	(br.s, 1H).	
yl]-acetic acid		
(3S)-{3-	2.06 (m, 2 H), 2.77 (m, 6 H), 3.29 (m, 2 H), 3.45	
[Benzyloxycarbonyl-(2-	(m, 3 H), 4.08 (dd, 1 H), 4.88 (m, 2 H), 5.13 (s, 2	DMSO-
methoxy-ethyl)-amino]-6-	H), 6.89 (m, 1 H), 7.16 (m, 1 H), 7.34 (m, 6 H),	d_6
fluoro-1,2,3,4-tetrahydro-	13.00 (br. s, 1H).	3-0
9H-carbazol-9-yl}-acetic		
acid		•
(3S)-{6-Fluoro-3-[[3-(2-	1.93 (dd, 1 H), 2.09 (m, 1 H), 2.75 (m, 8 H), 3.66	DMSO-
methoxy-phenyl)-	(m, 3 H), 3.77 (m, 2 H), 4.13 (m, 3 H), 4.90 (m, 2	d_6
propionyl]-(2-phenoxy-	H), 6.90 (m, 6 H), 7.17 (m, 3 H), 7.33 (m, 3 H),	

-	ethyl)-amino]-1,2,3,4-	12.90 (br. s, 1H)	
*	tetrahydro-9H-carbazol-9-		
	yl}-acetic acid		
	(2 C) (6 Floors 2	1.93 (m, 2 H), 2.70-3.08 (m, 8 H), 4.41 (m, 0.5	
(3S)-{6-Fluoro-3-		H), 4.86 (m, 2.5 H), 5.05 (m, 2 H), 6.87 (m, 1 H),	D) (CO
	[naphthalen-1-ylmethyl-(3-	7.04 (m, 2 H), 7.19 (m, 3 H), 7.35 (m, 3 H), 7.56	DMSO-
	phenyl-propionyl)-amino]-	(m, 3 H), 7.83 (m, 1 H), 7.97 (m, 1 H), 8.15 (m, 1	d_6
	1,2,3,4-tetrahydro-9 <i>H</i> -	H), 13.00 (br.s, 1H).	
,	carbazol-9-yl}-acetic acid		
	(3 <i>RS</i>)-(3-	1.76 (m, 1H), 2.05 (m, 1H), 2.48 (m, 1H), 2.68	
	Benzyloxycarbonylamino-	(m, 1H), 2.75 (t, 1H), 2.93 (d, 1H), 3.77 (m, 1H),	
	6-fluoro-1,2,3,4-	4.85 (s, 2H), 5.05 (s, 2H), 6.87 (dt, 1H), 7.14 (dd,	DMSO-
	tetrahydro-9 <i>H</i> -carbazol-9-	1H), 7.29-7.38 (<i>m</i> , 5H), 7.46 (<i>m</i> , 1H).	d_6
	yl)-acetic acid	111), 7.25-7.36 (m, 311), 7.40 (m, 111).	
	yi)-accite acid	0.96 (4.211) 1.20 (4.211) 1.21 (211) 1.42 (
	(3 <i>S</i>)-Ethyl [3-(3-butyl-	0.86 (t, 3H), 1.20 (t, 3H), 1.31 (m, 2H), 1.42 (m,	DMCO
	ureido)-1,2,3,4-tetrahydro-	2H), 2.06 (m, 2H), 2.64 (dd, 1H), 2.70 (m, 2H),	DMSO-
	9H-carbazol-9-yl]-acetate	3.03-3.10 (m, 3H), 4.18 (q, 2H), 4.28 (m, 1H),	d_6
		4.71 (s, 2H), 7.04-7.21 (m, 3H), 7.45 (d, 1H).	
-	(3S)-Ethyl $(3-$	0.93 (t, 3H), 1.24 (t, 3H), 1.63 (m, 2H), 2.03-2.14	
	propoxycarbonylamino-	(m, 2H), 2.65 (dd, 1H), 2.77 (t, 2H), 3.12 (dd,	CDCl ₃
	1,2,3,4-tetrahydro-9 <i>H</i> -	1H), 4.02 (t, 2H), 4.20 (m, 4H), 4.72 (s, 2H),	
	carbazol-9-yl)-acetate	7.07-7.14 (m, 1H, H), 7.17 (m, 2H), 7.44 (d, 1H).	
	(3S)- Ethyl [3-(2-phenoxy-	1.24 (t, 3H), 2.04 (m, 1H), 2.17 (m, 1H), 2.60-	
	acetylamino)-1,2,3,4-	2.86 (m, 3H), 3.15 (dd, 1H), 4.20 (q, 2H), 4.53	CDCl ₃
	tetrahydro-9H-carbazol-9-	(m, 1H), 4.49 (s, 2H), 4.72 (s, 2H), 6.71 (d, 1H),	CDC13
	yl]-acetate	6.90 (s, 2H), 7.02-7.27 (m, 6H), 7.45 (d, 1H).	٠.
	(3R)- Ethyl $(3-tert-$	1.25 (t, 3H), 1.45 (s, 9H), 1.99 (m, 1H), 2.12 (m,	
	butoxycarbonylamino-	1H), 2.63 (dd, 1H,), 2.75 (m, 2H), 3.09 (dd, 1H),	an a
	1,2,3,4-tetrahydro-9 <i>H</i> -	4.16 (m, 1H), 4.21 (d, 2H), 4.72 (s, 2H), 7.18 (m,	CDCl ₃
	carbazol-9-yl)-acetate	3H), 7.45 (<i>d</i> , 1H).	
	(3R)- Ethyl {6-fluoro-3-[2-	1.24 (t, 3H), 2.04 (m, 2H), 2.60 (m, 2H), 2.70 (dt,	
	(4-trifluoromethyl-phenyl)-	1H), 3.01 (dd, 1H), 3.54 (s, 2H), 4.19 (q, 2H),	CDCl ₃
.	acetylamino]-1,2,3,4-	4.43 (m, 1H), 4.66 (s, 2H), 5.58 (d, 1H), 6.88 (dt,	3
		(11), 0.00 (ut,] <u> </u>

totachudae OII earleanal O	111) 7.06 (m. 211) 7.27 (m. 111) 7.20 (J. 211)	· · · ·
tetrahydro-9 <i>H</i> -carbazol-9-	1H), 7.06 (m, 2H), 7.27 (m, 1H), 7.39 (d, 2H),	
yl}-acetate	7.54 (<i>d</i> , 2H).	*
(3 <i>RS</i>)- Ethyl (3-	1.18 (t, 3H), 1.76 (m, 1H), 2.03 (m, 1H), 2.46 (m,	
benzyloxycarbonylamino-	1H), 2.63-2.80 (m, 2H), 2.90 (dd, 1H), 3.75 (m,	DMSO-
8-chloro-6-fluoro-1,2,3,4-	1H), 4.14 (q, 2H), 5.03 (s, 2H), 5.15 (s, 2H), 7.01	d_6
tetrahydro-9H-carbazol-9-	(dd, 1H), 7.19 (dd, 1H), 7.27-7.36 (m, 5), 7.45 (d,	<i>u</i> ₆
yl)-acetate	1H).	
(3S)- Ethyl [6-fluoro-3-(4-	1.28 (t, 3H), 2.07 (dd, 2H), 2.54 (dd, 1H), 2.73 (t,	0
nitro-	2H), 2.87 (dd, 1H), 3.94 (m, 1H), 4.21 (d, 2H),	
benzenesulfonylamino)-	4.68 (s, 2H), 4.90 (d, 1H), 6.85-6.94 (m, 2H),	CDCl ₃
1,2,3,4-tetrahydro-9 <i>H</i> -		
carbazol-9-yl]-acetate	7.06 (dd, 1H), 8.03 (d, 1H), 8.30 (d, 1H).	
(3 <i>S</i>)- Ethyl {6-fluoro-3-	1.27 (t, 3H), 1.85 (m, 1H), 2.01 (m, 1H), 2.65 (dd,	
[methyl-(4-nitro-	1H), 2.75-2.82 (m, 3H), 2.94 (s, 3H), 4.20 (d,	
benzenesulfonyl)-amino]-	2H), 4.36 (m, 1H), 4.67 (s, 2H), 6.90 (dt, 1H),	CDCl ₃
1,2,3,4-tetrahydro-9 <i>H</i> -	6.97 (dd, 1H),7.06 (dd, 1H), 8.03 (d, 1H), 8.37 (d,	
carbazol-9-yl}-acetate	1H).	
(3RS)-(8-Chloro-6-fluoro-	1.76 (m, 1H), 1.99 (m, 1H), 2.48 (m, 1H), 2.74-	
2,3,4,9-tetrahydro-1 <i>H</i> -	2.93 (m, 3H), 3.80 (m, 1H), 5.03 (s, 2H), 7.00 (dd,	DMSO-
carbazol-3-yl)-carbamic	1H), 7.10 (dd, 1H), 7.28-7.36 (m, 5H), 7.43 (d,	d_6
acid benzyl ester	1H), 11.10 (s, 1H).	

Biological assays:

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Preparation of hCRTH2 receptor membranes and radioligand binding assay:

Preparation of the membranes and radioligand binding assays are performed according to known procedures (e.g. Sawyer N. et al., Br. J. Pharmacol. 2002, 137, 1163-1172). A clonal HEK 293 cell line, expressing high level of recombinant hCRTH2 receptor, is selected for the preparation of membranes. Cells are detached from culture plates in 5 ml buffer A per plate (5 mM Tris, pH 7.4, 1 mM MgCl₂, 0.1 mM PMSF, 0.1 mM phenanthroline) using a police rubber and transferred into centrifugation tubes and frozen at -80°C. After thawing, the cells are centrifuged at 500 g for 5 min and then resuspended in buffer A. Cells are then fragmented by homogenization with a Polytron cell homogenizer for 30 s. The membrane fragments are collected by centrifugation at 3000 g for 40 min and resuspended in buffer B (50 mM Tris, pH 7.4, 25 mM MgCl₂, 250 mM saccharose) and aliquots are stored at -20°C.

Binding assay is performed in a total volume of 250 μl. In each well, 75 μl buffer C (50 mM Tris, pH 7.4, 100 mM NaCl, 1 mM EDTA, 0.1% BSA (protease free), 0.01 % NaN₃) is mixed with 50 μl {³H}-PGD₂ (2.5 nM, 220'000 dpm/well, Amersham Biosciences, TRK734), 100 μl CRTH2 membranes to give 80 μg per well, and 25 μl of test compound in buffer C containing 1% DMSO. For unspecific binding, PGD₂ is added to the reaction mixture at 1 μM final concentration. This binding assay mix is incubated at rt for 90 min and then filtered through a GF/C filter plate. The filter is washed three times with ice cold binding buffer C. Then, Microscint-40 (Packard, 40 μl/well) is added and the receptor bound radioactivity is quantified by scintillation counting in a "TopCount" benchtop microplate scintillation counter (Packard).

Results for ligand binding to the hCRTH2 receptor:

Antagonistic activities (IC₅₀ values) of compounds of Formula I are in the range of 0.1 to 10000 nM with respect to the hCRTH2 receptor (preferred compounds: < 1000 nM, more preferred compounds: < 100 nM, most preferred compounds: < 10 nM). IC₅₀ values of 242 from 251 exemplified compounds (9 IC₅₀ values being not available) are in the range of 0.4-2050 nM with an average of 97 nM with respect to the hCRTH2 receptor. Antagonistic activities of selected compounds are displayed in Table 12.

Table 12

Compound	hCRTH2 Bdg
	IC ₅₀ (nM)
(3S)-[3-(3,3-Diphenyl-propionylamino)-6-fluoro-1,2,3,4	2
tetrahydro-9H-carbazol-9-yl]-acetic acid	
(3S)-(3-{Acetyl-[2-(2-fluoro-phenyl)-ethyl]-amino}-6-	4
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	* ·
(3S)-(6-Fluoro-3-{(2-methoxy-ethyl)-[3-(2-methoxy-	6
phenyl)-propionyl]-amino}-1,2,3,4-tetrahydro-9H-	
carbazol-9-yl)-acetic acid	
(3S)-{3-[(RS)-2-Benzyl-3-(3-methoxy-	6
phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-	
tetrahydro-9H-carbazol-9-yl}-acetic acid	*
(3S)-[3-(3-Benzyl-1-cyclohexylmethyl-ureido)-6-fluoro-	6
1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid	
(3S)-{3-[2-(4-Chloro-phenoxy)-acetylamino]-6-fluoro-	9
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3S)-{3-[(2,3-Dihydro-1H-indole-2-carbonyl)-amino]-6-	11
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3S)-{6-Fluoro-3-[3-(4-methylsulfanyl-phenyl)-	14
propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-	. ·
acetic acid	
(3S)-{3-[3-(2,5-Bis-trifluoromethyl-phenyl)-	15
propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-	
carbazol-9-yl}-acetic acid	
(3S)-[3-(3-Benzo[1,3]dioxol-5-yl-propionylamino)-6-	15
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	
(3S)-{6-Fluoro-3-[ethyl-(3-phenyl-propionyl)-amino]-	16
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3S)-{3-[3-(2,4-Dichloro-phenyl)-propionylamino]-6-	16
fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid	

$(3S)$ - $(6$ -Fluoro- 3 - $\{[(2RS)$ - 8 -methoxy- 1 ,2,3,4-tetrahydro-	18
naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-	
carbazol-9-yl)-acetic acid	
$(3S)$ - $\{6$ -Fluoro- 3 - $[((S)$ - 2 -methyl- 3 -phenyl-propionyl)- $(2$ -	21
phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-	
9-yl}-acetic acid	
(3RS)-(3-Benzyloxycarbonylamino-6-trifluoromethyl-	26
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl)-acetic acid	
(3S)-{6-Fluoro-3-[3-(2-hydroxy-phenyl)-	.33
propionylamino]-1,2,3,4=tetrahydro-9 <i>H</i> -carbazol-9-yl}-	
acetic acid	
(3R)-{3-[3-(3-Chloro-phenyl)-propionylamino]-6-	39
fluoro-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3S)-{6-Fluoro-3-[3-(3-trifluoromethoxy-phenyl)-	47
propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-	
acetic acid	0.0
(3RS)-[8-Chloro-6-fluoro-3-(3-phenyl-propionylamino)-	57
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	
(3S)-{3-[(2-Benzyloxy-acetyl)-methyl-amino]-6-fluoro-	60
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3R)-[6-Fluoro-3-(3-p-tolyl-propionylamino)-1,2,3,4-	. 61
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	
(3S)-{6-Fluoro-3-[3-(4-methanesulfonyl-phenyl)-	72
propionylamino]-1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-	
acetic acid	
(3S)-(3-Isobutoxycarbonylamino-1,2,3,4-tetrahydro-9H-	84
carbazol-9-yl)-acetic acid	0
(3S)-{3-[3-(3-tert-Butoxydarbonylamino-phenyl)-	93
propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-	
carbazol-9-yl}-acetic acid	
	<u>. </u>

(3S)-[3-(2-Benzyloxy-ethoxycarbonylamino)-1,2,3,4-	117
tetrahydro-9 <i>H-</i> carbazol-9-yl]-acetic acid	
(3R)-[3-(3-Phenylsulfonyl-ureido)-1,2,3,4-tetrahydro-	147
9H-carbazol-9-yl]-acetic acid	
(3R)-[3-(3-Naphthalen-1-yl-ureido)-1,2,3,4-tetrahydro-	152
9H-carbazol-9-yl]-acetic acid	
(3R)-[3-(2-Thiophen-2-yl-acetylamino)-1,2,3,4-	297
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	
(3R)-[3-(3-Cyclopentyl-propionylamino)-1,2,3,4-	400
tetrahydro-9 <i>H</i> -carbazol-9-yl]-acetic acid	
(3R)-(3-Benzoylamino-1,2,3,4-tetrahydro-9H-carbazol-	488
9-yl)-acetic acid	
(3S)-{6-Fluoro-3-[(1H-indole-2-carbonyl)-amino]-	824
1,2,3,4-tetrahydro-9 <i>H</i> -carbazol-9-yl}-acetic acid	
(3S)-[3-(3-Butyl-ureido)-1,2,3,4-tetrahydro-9H-	896
carbazol-9-yl]-acetic acid	*

Intracellular calcium mobilization assay (FLIPR):

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Cells (HEK-293), stably expressing the hCRTH2 receptor under the control of the cytomegalovirus promotor from a single insertion of the expression vector pcDNA5 (Invitrogen), are grown to confluency in DMEM (low glucose, Gibco) medium supplemented with 10% fetal calf serum (Bioconcept, Switzerland) under standard mammalian cell culture conditions (37°C in a humidified atmosphere of 5% CO₂). Cells are detached from culture dishes using a dissociation buffer (0.02% EDTA in PBS, Gibco) for 1 min, and collected by centrifugation at 200 g at rt for 5 min in assay buffer (equal parts of Hank's BSS (HBSS, Bioconcept) and DMEM (low glucose, without phenol red, Gibco)). After incubation for 45 min (37°C and 5% CO₂) in the presence of 1 µM Fluo-4 and 0.04% Pluronic F-127 (both Molecular Probes), and 20 mM HEPES (Gibco) in assay buffer, the cells are washed with and resuspended in assay buffer, then seeded onto 384-well FLIPR assay plates (Greiner) at 50,000 cells in 66 µl per well, and sedimented by centrifugation.

Stock solutions of test compounds are made up at a concentration of 10 mM in DMSO, and serially diluted in assay buffer to concentrations required for inhibition dose response curves. Prostaglandin D₂ (Biomol, Plymouth Meeting, PA) is used as an agonist.

A FLIPR384 instrument (Molecular Devices) is operated according to the manufacturer's standard instructions, adding 4 μ l of test compound dissolved at 10 mM in DMSO and diluted prior to the experiment in assay buffer to obtain the desired final concentration. 10 μ l of 80 nM prostaglandin D₂ (Biomol, Plymouth Meeting, PA) in assay buffer, supplemented with 0.8% bovine serum albumin (fatty acid content <0.02%, Sigma), is then added to obtain a final concentration of 10 nM and 0.1%, respectively. Changes in fluorescence are monitored before and after the addition of test compounds at $\lambda_{\rm ex}$ =488 nm and $\lambda_{\rm em}$ =540 nm. Emission peak values above base level after prostaglandin D₂ addition are exported after base line subtraction. Values are normalized to high-level control (no test compound added) after subtraction of base line value (no prostaglandin D₂ added). The program XLlfit 3.0 (IDBS) is used to fit the data to a single site dose response curve of the equation (A+((B-A)/(1+((C/x)^D))))) and to calculate the IC₅₀ values.

Claims:

1. A compound of Formula I:

$$R^{2}$$
 R^{3}
 R^{4}
 $COOH$

I

wherein

 R^1 , R^2 , R^3 and R^4 independently represent hydrogen, C_{1-5} -alkyl, C_{1-5} -alkoxy, alkenyl, halogen, nitro, cyano, halo- C_{1-6} -alkoxy, halo- C_{1-6} -alkyl, C_{1-6} -alkylsulfonyl, or formyl;

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 R^5 represents hydrogen, alkenyl, C_{1-6} -alkyl, cycloalkyl- C_{1-4} -alkyl, C_{1-3} -alkoxy- C_{1-4} -alkyl, aryl- C_{1-4} -alkyl, or aryloxy- C_{1-4} -alkyl;

wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy, C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, trifluoromethyl, and trifluoromethoxy; and

 R^6 represents C_{1-9} -alkylaminocarbonyl; C_{1-9} -alkylaminothiocarbonyl; C_{1-9} -alkylcarbonyl; arylaminothiocarbonyl; arylaminothiocarbonyl; arylaminothiocarbonyl; aryl- C_{1-3} -alkoxy- C_{1-3} -alkoxy- C_{1-3} -alkoxy- C_{1-3} -alkoxy- C_{1-3} -alkylcarbonyl; aryl- C_{1-3} -alkylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; arylcarbonyl; cycloalkyl- C_{1-3} -alkylcarbonyl; arylcarbonyl; arylsulfonylaminocarbonyl; cycloalkyl- C_{1-3} -alkylcarbonyl; diaryl- C_{1-3} -alkylcarbonyl; heteroarylcarbonyl; heteroarylcarbonyl; aryl- C_{3-6} -cycloalkylcarbonyl; cycloalkylcarbonyl; or R^7 - C_{1-4} -alkylcarbonyl, wherein the bridging C_{1-4} -alkyl group may additionally be mono-

substituted with aryl or disubstituted with hydroxy, and R^7 represents arylaminocarbonyl, heteroarylaminocarbonyl, C_{1-6} -alkylaminocarbonyl, or aryl- C_{1-3} -alkylaminocarbonyl; wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-2} -alkylendioxy; C_{1-6} -alkoxy; C_{1-6} -alkyl; C_{1-6} -alkylsulfonyl; phenyl which is unsubstituted, mono- or di-substituted by substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyl; phenyl- C_{1-3} -alkyl, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyl- C_{1-3} -alkyl; phenoxy, wherein the phenyl group is unsubstituted, mono- or di-substituted with substituents independently selected from halogen, trifluoromethyl, methoxy and methyl; naphthyloxy; halogen; hydroxy; halo- C_{1-6} -alkyl; halo- C_{1-6} -alkoxy; C_{1-6} -alkylthio; and C_{1-4} -alkoxycarbonylamino; or a salt of such a compound.

- 2. A compound according to claim 1, wherein R¹, R³ and R⁴ represent hydrogen; or a salt of such a compound.
- 3. A compound according to claim 1 or 2, wherein R² represents hydrogen, trifluoromethyl, or halogen; or a salt of such a compound.

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- 4. A compound according to any one of claims 1 to 3, wherein R^5 represents hydrogen; C_{1-3} -alkyl; cyclopropylmethyl; 2-methoxyethyl; phenyl- C_{2-3} -alkyl; or phenoxyethyl, wherein the phenyl group is unsubstituted, or mono-substituted with a group selected from C_{1-2} -alkylendioxy, C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, trifluoromethyl, and trifluoromethoxy; or a salt of such a compound.
- A compound according to any one of claims 1 to 4, wherein R⁶ represents C_{1.9}alkylaminocarbonyl; C₁₋₉-alkylcarbonyl; C_{1-9} -alkoxycarbonyl; arylalkenylcarbonyl; arylaminocarbonyl; aryl-C₁₋₃-alkoxy-C₁₋₃-alkoxycarbonyl; aryl-C₁₋₃-alkoxycarbonyl; aryl- C_{1-3} -alkylaminocarbonyl; aryl- C_{1-6} -alkylcarbonyl; aryl-C₁₋₃-alkoxy-C₁₋₃-alkylcarbonyl; arylcarbonyl; arylcarbonyl-C₁₋₄-alkylcarbonyl; aryloxy-C₁₋₃-alkylcarbonyl; arylsulfonylaminocarbonyl; cycloalkyl-C₁₋₃-alkylcarbonyl; diaryl-C₁₋₃-alkylcarbonyl; heterocyclylcarbonyl; heteroaryl-C₁₋₃-alkylcarbonyl; heteroarylcarbonyl; aryl-

 C_{3-6} -cycloalkylcarbonyl; cycloalkylcarbonyl; or R^7 - C_{1-4} -alkylcarbonyl, wherein the bridging C_{1-4} -alkyl group may additionally be mono-substituted with aryl, and R^7 represents arylaminocarbonyl, heteroarylaminocarbonyl, C_{1-6} -alkylaminocarbonyl, or aryl- C_{1-3} -alkylaminocarbonyl;

- wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, halo-C₁₋₆-alkyl, halo-C₁₋₆-alkoxy, C₁₋₆-alkylthio, and C₁₋₄-alkoxycarbonylamino; or a salt of such a compound.
- 6. A compound according to any one of claims 1 to 4, wherein R⁶ represents aryl-C₁₋₂-alkoxycarbonyl; aryl-C₁₋₂-alkylaminocarbonyl; aryl-C₁₋₄-alkylcarbonyl; aryloxy-C₁₋₂-alkylcarbonyl; or diaryl-C₂₋₃-alkylcarbonyl; or R⁷-C₂₋₄-alkylcarbonyl, wherein the bridging C₂₋₄-alkyl group may additionally be mono-substituted with aryl, and R⁷ represents arylaminocarbonyl, or C₁₋₄-alkylaminocarbonyl;
- wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C₁₋₂-alkylendioxy, C₁₋₆-alkoxy, C₁₋₆-alkyl, C₁₋₆-alkylsulfonyl, halogen, hydroxy, trifluoromethyl, and trifluoromethoxy; or a salt of such a compound.
- 7. A compound according to any one of claims 1 to 6, wherein, in case R⁶ represents a group which contains a carbonyl group and one or more aryl moieties, said group is such that it contains a bridging group between the carbonyl group and said aryl moiety (moieties) of said R⁶, wherein the carbonyl moiety and at least one of the aryl moieties are directly attached to different atoms of said bridging group;
- or a salt of such a compound.

- 8. A compound according to any one of claims 1 to 3, wherein R^6 represents C_{1-4} -alkylcarbonyl; or aryl- C_{2-4} -alkylcarbonyl, wherein aryl is unsubstituted, mono- or di-substituted with a group independently selected from C_{1-4} -alkoxy, C_{1-4} -alkyl, halogen, and trifluoromethyl; and
- R⁵ represents phenyl-C₂₋₃-alkyl; or a salt of such a compound.

- 9. A compound according to claim 1 selected from the group consisting of:
- (3S)-[3-(3,3-diphenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-{3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 5 yl}-acetic acid;
 - (3S)-[6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{3-[2-(4-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 10 (3S)-{3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-[6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 15 (3S)-{3-[3-(4-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - $(3S)-\{3-[2-(4-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl\}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl\}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl\}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl\}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9\textit{H-}carbazol-9-yl}-1,2,3,4-tetrahydro-9-tet$
- 20 acetic acid;
 - (3R)-{3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-[6-fluoro-3-(4-oxo-4-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)- $\{3-[(2,3-dihydro-1H-indole-2-carbonyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-indole-2-carbonyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-indole-2-carbonyl)$
- 30 carbazol-9-yl}-acetic acid;
 - (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-ethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3R)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-{6-fluoro-3-[methyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-[6-fluoro-3-(3-1*H*-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-benzo[1,3]dioxol-5-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[ethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[2-(4-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(2,3-diphenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-[6-fluoro-3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; (3S)-{3-[3-(3,4-difluoro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; (3R)-[3-(2-benzyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 20 (3S)-{6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[propyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(2-benzyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3R)-(3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid; (3R)-{6-fluoro-3-[2-(4-methoxy-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{3-[3-(4-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 30 (3S)-{3-[4-(4-bromo-phenyl)-4-oxo-butyrylamino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-propyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3R)-(3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-{3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-(6-fluoro-3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-1H-benzoimidazol-2-yl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-
- 10 carbazol-9-yl]-acetic acid;
 - (3S)-{6-fluoro-3-[3-(4-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[6-fluoro-3-(2-p-tolyloxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-[6-fluoro-3-(2-p-tolyl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; (3R)-{3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-[3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-fluoro-3-(3-p-tolyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic
- 20 acid;
 - (3S)-(3-benzyloxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(2-p-tolyl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - $(3S)-\{6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-1,2,3,4-tetrahydro-9-$
- 25 yl}-acetic acid;
 - (3R)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-fluoro-3-(3-naphthalen-2-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 30 (3S)-{6-fluoro-3-[4-(4-methanesulfonyl-phenyl)-4-oxo-butyrylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{[2-(4-chloro-phenyl)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3S)-[3-(3-phenylsulfonyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-{6-fluoro-3-[3-(4-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3R)-[3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3R)-{3-[2-(4-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-[6-fluoro-3-(3-p-tolyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{6-fluoro-3-[3-(4-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-
- 10 9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[3-(4-hydroxy-3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[2-(3-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{6-fluoro-3-[2-(4-methoxy-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{3-[2-(3-chloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-
- 20 carbazol-9-yl}-acetic acid;

- (3R)-(3-tert-butoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-{3-[2-(3,4-dichloro-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-(3-isobutoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 25 (3S)-{6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[6-fluoro-3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(2-benzyloxy-ethoxycarbonylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid:
 - (3S)-[3-(2-phenoxy-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-propoxycarbonylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3S)-(3-phenylacetylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-[3-(3-phenylsulfonyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[3-(3-benzyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-[3-(3-naphthalen-1-yl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 (3S)-(3-decanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(3-naphthalen-2-yl-acryloylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[2-(4-tert-butyl-phenyl)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 10 (3R)-(3-benzyloxycarbonylamino-8-chloro-6-fluoro-1,2,3₂4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-benzyloxycarbonylamino-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[6-fluoro-3-(3-pyridin-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-
- 15 acetic acid;
 - (3R)-[3-(3-benzyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-methyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-{6-fluoro-3-[2-(4-trifluoromethyl-phenyl)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 20 (3S)-[3-(3-phenyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-cyclopentyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[3-(2-thiophen-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-butyrylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-benzyloxycarbonylamino-8-chloro-5-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-
- 25 acetic acid;
 - (3S)-(3-benzyloxycarbonylamino-8-chloro-5-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-heptanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-[3-(3-cyclopentyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 30 (3R)-(3-decanoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-benzoylamino-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-[3-(3-butyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3S)-{6-fluoro-3-[(1H-indole-2-carbonyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-[3-(3-methyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[3-(3-butyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 5 or a salt of such a compound.
 - 10. A compound according to claim 1 selected from the group consisting of:
 - (3R)-[3-(3-Benzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-Benzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[6-Fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-[3-(3-Benzyl-ureido)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[3-(3-Benzyl-ureido)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 15 (3R)-[8-Chloro-6-fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[8-Chloro-6-fluoro-3-(3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-
- 20 acetic acid;
 - (3S)-(3-Benzyloxycarbonylamino-6-trifluoromethyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-8-bromo-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 25 (3S)-(3-Benzyloxycarbonylamino-8-bromo-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-vinyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-
- 30 acetic acid;
 - (3R)-(3-Benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-methanesulfonyl-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- (3S)-(3-Benzyloxycarbonylamino-6-fluoro-8-methyl-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 5 (3S)-(3-Benzyloxycarbonylamino-7-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(8-Allyl-3-benzyloxycarbonylamino-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3R)-(3-Benzyloxycarbonylamino-8-chloro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[3-(2,4-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[6-Fluoro-3-(3-naphthalen-1-yl-propionylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- 15 (3R)-{6-Fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 20 yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-{6-Fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-
- 30 9-yl}-acetic acid;
 - (3R)-{6-Fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{6-Fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-{6-Fluoro-3-[2-(2-methylphenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{6-Fluoro-3-[2-(2-methylphenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,5-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,6-Dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,5-Bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{6-Fluoro-3-[3-(4-methylsulfanyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(4-isopropyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-
- 20 9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-trifluoromethyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,4-Dichloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 25 (3S)-{6-Fluoro-3-[3-(4-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3,5-Bis-trifluoromethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(4-Ethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 30 yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-iodo-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{6-Fluoro-3-[3-(4-methanesulfonyl-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{3-[3-(2,3-Dimethoxy-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{3-[3-(2-Bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-trifluoromethoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(2,4-Dimethyl-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-
- 10 carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3-Bromo-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[3-(3-tert-Butoxycarbonylamino-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{6-Fluoro-3-[(S)-3-(4-fluoro-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(S)-3-(4-methoxy-phenyl)-2-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(2-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-
- 20 yl}-acetic acid;
 - (3S)-(6-Fluoro-3-{[(2RS)-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 25 (3S)-(6-Fluoro-3-{(2RS)-2-[(4-fluoro-phenylcarbamoyl)-methyl]-3-phenyl-propionylamino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid; (3S)-{3-[(2RS)-2-Benzyl-3,3-dimethyl-butyrylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 30 1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[3-(3-fluoro-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;

- (3S)-(6-Fluoro-3-{[(2RS)-8-methoxy-1,2,3,4-tetrahydro-naphthalene-2-carbonyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- (3S)-{6-Fluoro-3-[(2R)-2-methyl-3-phenyl-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-[3-(2,2-Dimethyl-3-phenyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(3-methyl-3-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- (3S)-{6-Fluoro-3-[(3S)-3-phenyl-butyrylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(2-Benzyloxy-acetylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(4-phenyl-butyrylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[(2R,3R)-2,3-Dihydroxy-3-(2-methoxy-phenylcarbamoyl)-propionylamino]-6-
- 15 fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[3-(2-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 20 (3R)-{8-Chloro-6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[2-(2-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[3-(3-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 30 (3S)-{8-Chloro-6-fluoro-3-[3-(3-methoxy-phenyl)-propionylamino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{8-Chloro-6-fluoro-3-[3-(3-methylphenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{8-Chloro-6-fluoro-3-[3-(2-hydroxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-[8-Chloro-6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3S)-[8-Chloro-6-fluoro-3-(3-phenyl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[3-(2-methoxy-phenyl)-propionylamino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 15 (3R)-{8-Chloro-3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[3-(3-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-[8-Chloro-6-fluoro-3-(3-1H-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-
- 20 carbazol-9-yl]-acetic acid;

- (3S)-[8-Chloro-6-fluoro-3-(3-1H-indol-3-yl-propionylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-{8-Chloro-3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-{8-Chloro-3-[2-(2-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-6-fluoro-3-[2-(2-methylphenyl)-oxy-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-6-fluoro-3-[2-(2-methylphenyl)-oxy-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid,
 - (3R)-[3-(3-Benzo[1,3]dioxol-5-yl-propionylamino)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;

- (3S)-[3-(3-Benzo[1,3]dioxol-5-yl-propionylamino)-8-chloro-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- (3R)-{8-Chloro-6-fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{8-Chloro-6-fluoro-3-[2-(3-methoxy-phenoxy)-acetylamino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3R)-{8-Chloro-3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[2-(3-chloro-phenoxy)-acetylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3R)-{8-Chloro-3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{8-Chloro-3-[3-(2-chloro-phenyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 15 (3R)-[8-Chloro-6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[8-Chloro-6-fluoro-3-(2-indan-2-yl-acetylamino)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(1-methyl-3-phenethyl-ureido)-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[3-(2-Chloro-benzyl)-1-methyl-ureido]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-Benzyl-1-methyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3S)-[3-(Benzyloxycarbonyl-methyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - {(3S)-3-[(2-Chloro-benzyloxycarbonyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)- $(6-Fluoro-3-\{[2-(4-methoxy-phenyl)-acetyl]-methyl-amino\}-1,2,3,4-tetrahydro-9H-methyl-amino}-$
- 30 carbazol-9-yl)-acetic acid;

(3S)-(6-Fluoro-3-{methyl-[2-(4-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3S)-(6-Fluoro-3-{[2-(2-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-{6-Fluoro-3-[(2-indan-2-yl-acetyl)-methyl-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- 5 (3S)-(3-{[2-(3-Chloro-phenyl)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{methyl-[2-(3-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-(6-Fluoro-3-{[2-(3-methoxy-phenyl)-acetyl]-methyl-amino}-1,2,3,4-tetrahydro-9Hcarbazol-9-yl)-acetic acid;
 - (3S)-(3-{[2-(2-Chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-{[2-(4-Chloro-phenoxy)-acetyl]-methyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- 15 (3S)-(6-Fluoro-3-{[3-(3-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{methyl-[2-(2-methylphenyl)-acetyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[(3,3-Diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-
- 20 9-yl}-acetic acid;

- (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-methyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-{6-Fluoro-3-[(3-1H-indol-3-yl-propionyl)-methyl-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 25 (3S)-{3-[(2-Benzyloxy-acetyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(2,3-Diphenyl-propionyl)-methyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(3-phenyl-propyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[Acetyl-(3-phenyl-propyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{3-[3-Benzyl-(1-cyclopropylmethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
- (3S)-[3-(Benzyloxycarbonyl-cyclopropylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- 5 (3S)-{3-[Cyclopropylmethyl-(3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[Cyclopropylmethyl-((S)-2-methyl-3-phenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{Cyclopropylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-
- 10 tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(3-{[2-(3-Chloro-phenoxy)-acetyl]-cyclopropylmethyl-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[Cyclopropylmethyl-(3,3-diphenyl-propionyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{3-[Cyclopropylmethyl-(2-naphthalen-1-yl-acetyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(3-{Benzyloxycarbonyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-(3-{Acetyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-
- 20 9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{propionyl-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{(3-phenyl-propionyl)-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
- 25 (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-[2-(4-trifluoromethyl-phenoxy)-ethyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-phenoxy-ethyl)-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[((S)-2-methyl-3-phenyl-propionyl)-(2-phenoxy-ethyl)-amino]-1,2,3,4-
- 30 tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[[3-(2-methoxy-phenyl)-propionyl]-(2-phenoxy-ethyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;

- (3S)-{3-[Acetyl-(2-phenoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{3-[3-Benzyl-1-(2-methoxy-ethyl)-ureido]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-{3-[Benzyloxycarbonyl-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-((S)-2-methyl-3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(6-Fluoro-3-{(2-methoxy-ethyl)-[3-(2-methoxy-phenyl)-propionyl]-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[[2-(3-Chloro-phenoxy)-acetyl]-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{3-[(3,3-Diphenyl-propionyl)-(2-methoxy-ethyl)-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[(2-methoxy-ethyl)-(2-naphthalen-1-yl-acetyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-(6-Fluoro-3-{[(2S)-2-methyl-3-phenyl-propionyl]-phenethyl-amino}-1,2,3,4-
- 20 tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-phenethyl-amino}-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
 - (3S)-[3-(Acetyl-phenethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
- 25 (3S)-{6-Fluoro-3-[(2-naphthalen-1-yl-acetyl)-phenethyl-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{6-Fluoro-3-[phenethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(3-Benzyl-1-naphthalen-1-ylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-1,2,3
- 30 carbazol-9-yl]-acetic acid;
 - (3S)-[3-(Benzyloxycarbonyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;

- (3S)-{6-Fluoro-3-[naphthalen-1-ylmethyl-(3-phenyl-propionyl)-amino]-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- (3S)-{6-Fluoro-3-[((S)-2-methyl-3-phenyl-propionyl)-naphthalen-1-ylmethyl-amino]-
- 1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 5 (3S)-(6-Fluoro-3-{[3-(2-methoxy-phenyl)-propionyl]-naphthalen-1-ylmethyl-amino}-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl)-acetic acid;
 - (3S)-{3-[(3,3-Diphenyl-propionyl)-naphthalen-1-ylmethyl-amino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(Acetyl-naphthalen-1-ylmethyl-amino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-
- 10 yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(naphthalen-1-ylmethyl-propionyl-amino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(2-methylphenyl)-carbamoyl-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
- 15 (3S)-{3-[(RS)-2-Benzyl-3-(3-methoxy-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(4-chloro-phenylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - (3S)-{3-[(RS)-2-Benzyl-3-(4-fluoro-benzylcarbamoyl)-propionylamino]-6-fluoro-1,2,3,4-
- 20 tetrahydro-9*H*-carbazol-9-yl}-acetic acid;
 - [(3S)-3-((RS)-2-Benzyl-3-propylcarbamoyl-propionylamino)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-[6-Fluoro-3-(3-thiophen-2-yl-propionylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- 25 (3S)-{3-[3-(3-Chloro-isoxazol-5-yl)-propionylamino]-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[6-Fluoro-3-(3-pyrimidin-2-yl-propionylamino)-1,2,3,4-tetrahydro-9*H*-carbazol-9-yl]-acetic acid;
- 30 tetrahydro-9H-carbazol-9-yl}-acetic acid;
 - (3S)-[3-(1,3-Dibenzyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid;
 - (3S)-(3-{Acetyl-[2-(2-fluoro-phenyl)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;

- (3S)-(3-{Acetyl-[2-(3-fluoro-phenyl)-ethyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid;
- (3S)-[3-(3-Benzyl-1-cyclohexylmethyl-ureido)-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl]-acetic acid; and
- 5 (3S)-(3-{Cyclohexylmethyl-[3-(2-methoxy-phenyl)-propionyl]-amino}-6-fluoro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-acetic acid; or a salt of such a compound.
- 11. A pharmaceutical composition comprising a compound according to any one of claims
 10 10, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.
 - 12. A compound according to any one of claims 1 to 10, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition according to claim 11, for use as a medicament.
- 13. Use of a compound according to any one of claims 1 to 10, or a pharmaceutically acceptable salt thereof, for the preparation of a medicament for the prevention and/or treatment of chronic and acute allergic/immune diseases/disorders, comprising allergic asthma, rhinitis, allergic rhinitis, chronic obstructive pulmonary disease, dermatitis, inflammatory bowel disease, rheumatoid arthritis, allergic nephritis, conjunctivitis, atopic dermatitis, bronchial asthma, food allergy, systemic mast cell disorders, anaphylactic shock, urticaria, eczema, itching, inflammation, ischemia-reperfusion injury, cerebrovascular disorders, pleuritis, ulcerative colitis, eosinophil-related diseases comprising Churg-Strauss syndrome and sinusitis, and basophil-related diseases, comprising basophilic leukemia and basophilic leukocytosis.

INTERNATIONAL SEARCH REPORT

International application No PCT/IB2007/053046

A. CLASSIFICATION OF SUBJECT MATTER INV. C07D209/88

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) ${\tt C07D}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	· · ·	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	. (*)	Relevant to claim No.
Y	WO 2006/070325 A (ACTELION PHARMACEUTICALS LTD [CH]; FECHER ANJA [CH]; FRETZ HEINZ [CH];) 6 July 2006 (2006-07-06) page 86; claim 1 page 4, line 9 - line 17		1–13
Y	EP 1 505 061 A (SHIONOGI & CO [JP]) 9 February 2005 (2005-02-09) page 31; table 6; compounds IB-14 - IB-48 paragraph [0116] - paragraph [0117]		1-13
A	GB 2 388 540 A (BAYER AG [DE]) 19 November 2003 (2003-11-19) cited in the application page 12; claim 1		1

Further documents are listed in the continuation of Box C.	X See patent family annex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filling date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filling date but later than the priority date claimed	*T* tater document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 17 December 2007	Date of mailing of the International search report 1 28/12/2007
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Authorized officer

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IB2007/053046

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